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James L. Taylor Manufacturing is a second generation designer and manufacturer of equipment for the woodworking industry based in Poughkeepsie, NY.

Cover photo by Tom LaBarbera Picture This Studio



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We are proud to announce the expansion of our Education Division and welcome Mark Harris on board as our Education Specialist. Mark comes to Allendale with over 35 years of experience in Manufacturing and the classroom. He has real-world experience and classroom experience and has combined those skills to create the Allendale Machinery System's Educational STEM program.



"It's my great pleasure to be part of the Allendale Team and especially involved with the Education Division at Allendale. I worked with Allendale as a teacher for twenty years, and they were always a great asset to my program. Now, I hope to help Allendale's educational outreach further." - "Mark Hatris, Allendale Educational Specialist



"My Grandfather, Thomas McGill, always supported technical education. A well-trained workforce is critical for our industry and the country's future."

Weil McCill, Director of Operations, Allendale Machinery



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DEAR READER

Welcome to the Spring 2024 Edition of HV Mfg, the Council of Industry's magazine by, for and about Hudson Valley manufacturers.

egular readers of this magazine know we write quite a bit about innovation and adaptation being hallmarks of successful Hudson Valley manufacturing firms. Those that thrive here are likely to have developed company cultures that are open to opportunity, focus on customers, anticipate change and embrace technology.

Our Spring edition highlights two such firms and also delves into some of the topics that they need to understand to be successful. We start with a profile of Poughkeepsie's James L. Taylor Manufacturing. A maker of woodworking equipment, the company has a deep rooted focus on customer satisfaction that has kept them innovating and adapting for more than a century.

Our leader Q&A is with Lee Galperin, President of Smith & Warren, a designer and manufacturer of custom badges for police and fire departments, security firms, the military and other agencies. Also more than a century old, Lee talks about Smith & Warren's commitment to quality and customer focus as well as his and his family's passion, perseverance and dedication.

Of course, developing and maintaining a culture that is innovative, open, nimble and customer focused doesn't happen without effort and hard work. Leaders need to be consistent yet open to change and they always need to be employing the latest most effective tools to grow their business. They need to be following industry and global economic and political trends and they need to ensure they are operating not just within the law, but 'beyond compliance,' as we like to say.

With that in mind this edition includes several articles to support manufacturing industry leaders. Steve Howell, Partner with RBT CPAs, writes on Enterprise Resource Planning (ERP) systems. He outlines the capabilities of such systems, how to select the right one for your manufacturing business and shares case studies in effective (and not so effective) implementation. Gus Scacco, CEO and Chief Investment Advisor at Hudson Valley Investment Advisors writes on current trends in globalization. Gus asks and answers why much of American manufacturing moved overseas during the past 20 years and why these firms seem to be moving back to the United States. Further he writes on the implications for New York State and Hudson Valley manufacturers.

People, or course, are the key to a firm's innovation and adaptation. Compensating and training them properly and effectively is essential to any firm's success. Josh Adams and Robert Guidotti, Principals at Jackson Lewis P.C., a Law firm specializing in labor and employment law, provide a valuable compliance checklist for US and New York State Wage and Hour laws. These laws are numerous and can be confusing – especially in a factory setting. Their article provides insights to help employers navigate the maze and ensure employes are paid properly. We also get a look behind the scenes at Dutchess Community College's Mechatronics Lab at the College's Center of Excellence for Industry and Innovation at Fishkill. The lab is the culmination of many years of planning and hard work and now – roughly 6 months into its operation, helping students and incumbent workers alike build skills needed in advanced manufacturing operations across the region.

Of course, we have our regular Spring edition features including news briefs, and our Member and Associate Member Directories.

Please also note the many and varied organizations who placed advertisements in HV Mfg. The Hudson Valley manufacturing sector ecosystem is strong and diverse including not only manufacturers, but banks and engineering firms, accounting firms and labor attorneys, educational institutions and equipment suppliers and so much more. Many of these organizations have placed ads in this magazine. I thank each of them for their generous support of the Council of Industry, this publication and manufacturers throughout the region. I hope you enjoy this edition and thank you for reading.

Sincerely,

President







BRIEFS

NEWS, RULES, REGULATION AND LEGISLATION

THE MANUFACTURING ECONOMY

J.P.Morgan Global Manufacturing PMI™: Factory Activity Stays Weak

Global manufacturing activity remained weak on soft demand, surveys showed in March, as euro zone factory activity kept contracting, while there were mixed signs on the strength of China's economy. In the 20-member euro zone, Hamburg Commercial Bank's final manufacturing Purchasing Managers' Index (PMI), compiled by S&P Global, was firmly below the 50 mark dividing contraction from expansion in a broad based downturn. Still, it did rise to 44.2 in November from October's 43.1, above a 43.8 preliminary estimate.

China's private Caixin/S&P Global manufacturing PMI unexpectedly rose to 50.7 .Japan's final au Jibun Bank manufacturing PMI fell to 48.3, shrinking at the fastest pace in nine months. South Korea's PMI stood at 50.0, rising slightly. Manufacturing activity also shrank in Taiwan, Vietnam and Malaysia, but expanded in India, Indonesia and the Philippines, the surveys showed.

Conference Board's Leading Indicators Index Rises for First Time in 2 Years Led By Hours Worked in Manufacturing Component

The Conference Board said its Leading Economic Index rose in February for the first time in two years on the strength of hours worked at U.S. factories and the surging stock market, among other factors, but the gauge of future activity still signals some headwinds to growth remain. The business research group's index rose 0.1% in February to 102.8. It was the first increase in the index since February 2022 and comes a month after the organization abandoned its prediction that the economy would fall into a recession.

Digging into the report's components, average weekly hours worked by production workers in the manufacturing sector led the rise by adding 0.18 percentage points (pp) to the LEI in February. The positive contribution corroborates with anecdotal evidence of producers across the country preparing for a ramp up in production once the Fed starts to ease borrowing costs and the recent firming in durable goods orders. Stock prices continued to gain over the month (adding 0.17pp), while loosened financial conditions supported a solid 0.08pp contribution from the Leading Credit Index. The usual negative contributions, the new orders component of the ISM manufacturing index, consumer expectations and the interest rate spread, continued to weigh on the LEI.

NAM Survey: Manufacturers' Outlook Still Dim

The National Association of Manufacturers Q4 2023 Manufacturers' Outlook Survey shows that small companies with fewer than 50 employees and medium-sized firms with between 50 and 499 employees, which make up a vast majority of the sector, continued to have historically lower levels of optimism with 65.9% and 63.0% positivity rates in Q4, respectively. The NAM conducted the survey from November 14 to December 1, 2023.

Among the Key Findings:

- 89% of respondents said higher tax burdens on manufacturing activities would make it more difficult to expand their workforce, invest in new equipment or expand facilities.
- Workforce challenges also continue to dominate the sector, with more than 71% of manufacturers citing the inability to attract and retain employees as their top primary challenge.
- A weaker domestic economy and sales for manufactured products (63.7%), an unfavorable business climate (61.1%) and rising healthcare and insurance costs (59.8%) are also impacting manufacturing optimism.

IMF Raises 2024 Economic Growth Outlook, Says Global 'Soft Landing' in Sight

Earlier this year the International Monetary Fund (IMF) edged its forecast for global economic growth higher, upgrading the outlook for both the United States and China - the world's two largest economies - and citing faster-than-expected easing of inflation. The IMF forecast global growth of 3.1% in 2024, up two-tenths of a percentage point from its October forecast, and said it expected unchanged growth of 3.2% in 2025. The historical average for the 2000-2019 period was 3.8%. It forecasts global trade growth of 3.3% in 2024 and 3.6% in 2025, well below the historical average of 4.9%, with gains weighed down by some 3,000 trade restrictions that were imposed in 2023.

- The United States got one of the biggest upgrades in the January update of the IMF outlook, with its GDP now forecast to expand by 2.1% in 2024 versus the 1.5% forecast in October. Growth was expected to ease to 1.7% in 2025.
- The euro area got a downgrade, and was now expected to grow just 0.9% in 2024 and 1.7% in 2025, with the biggest European economy Germany expected to see minimal GDP growth of 0.5% in 2024 instead of the 0.9% forecast in October.
- China's GDP was expected to grow by 4.6% in 2024, an upward revision of four-tenths of a percentage point from October, and 4.1% in 2025.
- Growth in emerging market and developing economies overall was expected to come in at 4.1% in 2024, with emerging

and developing Europe getting an upgrade due to stronger than expected growth in Russia on the back of high military spending related to the ongoing war in Ukraine.

- Russia's GDP was expected to grow 2.6% in 2024, 1.5 percentage points more than expected in October, with growth seen easing to 1.1% in 2025. The IMF said there could be further revisions since the numbers were preliminary and there were questions about the extent of Russia's fiscal stimulus.
- Negative growth in Argentina dragged the forecast for the Latin America and Caribbean region lower, with growth likely to decline to 1.9% in 2024, four-tenths of a percentage point lower than in October. Growth should edge higher to 2.5% in 2025, the IMF said.

Activity Little Changed in September Empire State Manufacturing Survey

Manufacturing activity held steady in New York State, according to the September survey. After dropping sharply last month, the general business conditions index reversed course and climbed twenty-one points to 1.9.

- The new orders index shot up twenty-five points to 5.1, and the shipments index also rose twenty-five points to 12.4, pointing to an increase in orders and shipments.
- The unfilled orders index remained below zero at -5.2, a sign that unfilled orders continued to decline. Similarly, the inventories index came in at -6.2, indicating that inventories contracted again. The delivery times index ticked up to 2.1, suggesting little change in delivery times.
- The index for number of employees came in at -2.7, indicating a slight decline in employment levels.
- The prices paid index held steady at 25.8, pointing to little change in the pace of input price increases, while the prices received index rose seven points to 19.6, signaling a modest pickup in the pace of selling price increases.
- New orders and shipments are expected to increase significantly in the months ahead, and employment is expected to grow.

CLIMATE, ENVIRONMENT, SAFETY AND HEALTH

Ørsted Powers Up All Turbines at First U.S. Commercial-Scale Offshore Wind Farm

Ørsted has installed and powered up all 12 turbines at the landmark South Fork project, and the first utility-scale U.S. offshore wind farm has started delivering power to Long Island and the Rockaways, offshore New York. The commissioning of the wind farm is in its final stage, and when at full capacity of 130 MW, it will generate enough renewable energy to power approximately 70,000 homes. The renewable energy is generated roughly 35 miles off the coast of Montauk, and will eliminate up to six million tons of carbon emissions over the life of the project, the equivalent of taking 60,000 cars off the road for the next twenty years.

The South Fork Wind began construction in February 2022, beginning with the onshore export cable system that links the project to the Long Island electric grid. The wind farm reached

its 'steel in the water' milestone in June 2023 with the installation of the project's first monopile foundation, and its final Siemens Gamesa-supplied turbine was installed in February 2024.

Gas - Not Renewables - Fills Gap in Power Generation from Indian Point Shuttering

When New York's deteriorating and unloved Indian Point nuclear plant finally shuttered in 2021, its demise was met with delight from environmentalists who had long demanded it be scrapped. But there has been a sting in the tail – since the closure, New York's greenhouse gas emissions have gone up. Castigated for its impact upon the surrounding environment and feared for its potential to unleash disaster close to the heart of New York City, Indian Point nevertheless supplied a large chunk of the state's carbon-free electricity.

Since the plant's closure, it has been gas, rather then clean energy such as solar and wind, that has filled the void, leaving New York City seeing its planet-heating emissions jump in recent years to the point its power grid is now dirtier than Texas's, as well as the U.S. average. "From a climate change point of view it's been a real step backwards and made it harder for New York City to decarbonize its electricity supply than it could've been," said Ben Furnas, a climate and energy policy expert at Cornell University. "This has been a cautionary tale that has left New York in a really challenging spot."

State Funds Hydrogen and Clean Fuel Program

The state has made \$16 million available to advance innovation in clean hydrogen through the Hydrogen and Clean Fuel Program. This funding will be directed to support research, development, and demonstration projects as well as leverage federal hydrogen funding opportunities.

The grants will be administered by the New York State Energy Research and Development Authority. The funding is being made available through two competitive grants, one under the state's Hydrogen and Clean Fuel Program, and the other to help entities applying for federal hydrogen funding for New York-based projects.

EPA Gives Automakers More Leeway to Phase Out Gas-Engine Cars

The Biden administration enacted the strictest-ever rules for tailpipe emissions but also gave the auto industry more time to comply. The new rules apply to light-duty vehicles—cars, sportutility vehicles and most pickup trucks—for model years 2027 through 2032. It governs how much heat-trapping carbon dioxide new vehicles can emit, as well as pollutants such as nitrogen oxides, which cause smog and lead to respiratory illnesses.

The concession to auto makers amounts to a recognition that the transition to electric cars will take longer than hoped. The EPA rules released in March ratchet up more gradually than regulators originally proposed, pushing the car industry toward majority EV sales by early next decade. That decision is to allow time for Americans to warm to EVs, as more chargers get installed and car companies develop more-affordable electric models.

EPA Bans Last Form of Asbestos

On March 18 the EPA announced a final rule to prohibit ongoing uses of chrysotile asbestos, the only known form of asbestos currently used in or imported to the United States. Chrysotile asbestos is found in products including asbestos diaphragms, sheet gaskets, brake blocks, aftermarket automotive brakes/linings, other vehicle friction products, and other gaskets. The use of asbestos in the United States has been declining for decades, and its use is already banned in over 50 countries.

Although there are several known types of asbestos, the only form known to be imported, processed, or distributed for use in the United States is chrysotile. Raw chrysotile asbestos was imported into the United States as recently as 2022 for use by the chlor-alkali industry. Most consumer products that historically contained chrysotile asbestos have been discontinued. The chloralkali sector uses asbestos diaphragms to make sodium hydroxide and chlorine, a critical use of which is to disinfect drinking water and wastewater. There are other ways to disinfect water and other ways to produce chlorine; in fact, two-thirds of the chlorine produced in the U.S. is produced without using asbestos.

OSHA Says Safety Helmets Provide Better Protection Than Hard Hats

On December 11, 2023, OSHA announced that the agency is replacing traditional hard hats used by its employees with more modern safety helmets to protect them better when they are on inspection sites. In 2020, the Bureau of Labor Statistics reports head injuries accounted for nearly 6 % of non-fatal occupational injuries involving days away from work. Almost half of those injuries occurred when workers came in contact with an object or equipment while about 20% were caused by slips, trips and falls.

Dating back to the 1960s, traditional hard hats protect the top of a worker's head but have minimal side impact protection and also lack chin straps. Without the straps, traditional hard hats can fall off a worker's head if they slip or trip, leaving them unprotected. In addition, traditional hard hats lacked vents and trapped heat inside. The agency recommends safety helmets be used by people working at construction industry and the oil and gas industry; in high-temperature, specialized work and lowrisk environments; performing tasks involving electrical work and working from heights; and when required by regulations or industry standards.

LABOR, EMPLOYMENT AND WORKFORCE DEVELOPMENT

Federal Judge Voids NLRB's New Joint Employer Rule

A federal judge in Texas has blocked a new rule by the National Labor Relations Board that would have made it easier for millions of workers to form unions at big companies. The rule, which was due to go into effect March 11th, would have set new standards for determining when two companies should be considered "joint employers" in labor negotiations. Under the current NLRB rule, which was passed by a Republicandominated board in 2020, a company like McDonald's isn't considered a joint employer of most of its workers since they are directly employed by franchisees.

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The new rule would have expanded that definition to say companies may be considered joint employers if they have the ability to control — directly or indirectly — at least one condition of employment. Conditions include wages and benefits, hours and scheduling, the assignment of duties, work rules and hiring. The U.S. Chamber of Commerce, which filed the successful legal action against the rule in November along with other organizations, argued the regulation would have made it too easy for the NLRB to declare joint-employer status, potentially leading to companies facing liability for workers not on their payroll and work establishments they don't truly control.

Independent Contractor Rule Takes Effect

On March 11th a new rule from the U.S. DOL took effect governing the designation of Independent Contractors. The DOL rule restores a "multifactor economic reality test" for determining if an employee is an independent contractor. Businesses must take into account a number of factors when analyzing an employer-employee relationship, including "opportunity for profit or loss," and the degree of control an employer has over the work. No one factor should take precedence over another. The new policy rescinds a previous rule that was instituted under President Donald Trump in 2021. It could result in millions of gig workers being reclassified as full-time employees.

The fate of the rule is uncertain, however, as it faces several legal challenges that could disrupt its implementation. According to the complaints, the DOL rulemaking was arbitrary and capricious, was an abuse of discretion, and exceeded the agency's statutory authority because Congress did not empower DOL to issue legislative rules defining the employment relationship under the FLSA. The lawsuits uniformly seek a preliminary and permanent injunction barring DOL from enforcing the 2024 rule and an order invalidating the rule. The industry plaintiffs also want the court to declare unlawful and set aside the DOL's rescission of the 2021 rule and a declaration that the 2021 rule remains in effect.

New Year Employment Law Developments: Key Changes for New York Employers

Ringing in the new year means a host of new employment laws that are now effective and on the horizon for New York employers. With the state very busy at year-end, employers should take note of new laws impacting the workforce in 2024, including certain key developments summarized below.

- Wage and Hour Updates: The state has increased the minimum salary thresholds for the "executive" and "administrative" minimum wage and overtime exemptions under New York Labor Law. As of January 1, 2024 in New York City, Long Island and Westchester County. The new threshold is \$1,200 per week (\$62,400 annualized.) For the remainder of the State it's \$1,124.20 per week (\$58,458.40 annualized). The threshold will increase in 2025 and 2026 as well.
- Minimum Wage: Effective January 1, 2024, the minimum wage increased to \$16 in New York City, Long Island, and Westchester County and \$15 in the rest of the state. It is the first of a series of annual increases slated for the Empire State.
- Social Media: Effective March 12, 2024, New York law will
 prohibit an employer from requesting or requiring an employee or
 applicant to disclose information for accessing their personal social
 media accounts and from taking related actions.

- Freelancers: Effective May 20, 2024, New York State's Freelance Isn't Free Act will require certain protections for independent contractors who are hired to provide services for \$800 or more, including, among other things, a written contract with certain detailed information.
- Release agreements: New York expanded its #MeToo statute in January to bar some of the most common terms for which employers bargain in settlement agreements involving claims of discrimination, harassment or retaliation.

NAM: Regulatory Onslaught Disproportionately Hits Small Manufacturers

NAM Vice President of Domestic Policy, Brandon Farris, told the House Committee on Small Business that the majority of manufacturing firms in the U.S. are small, and "...are the backbone of the manufacturing supply chain, often producing key components for larger firms ... [but] manufacturing faces significant headwinds in the form of the cost, complexity and uncertainty associated with overreaching and burdensome federal regulations." He cited NAM data finding that: The federal cost of regulations for manufacturers in 2022 was roughly \$350 billion, a 25% increase from 2012; and The average manufacturer in the U.S. pays \$29,100 per employee per year to comply with federal rules, while for the average small manufacturer, that price is \$50,100.

Farris cited other recent examples of onerous federal rulemaking, including: The Environmental Protection Agency's recently finalized update to the National Ambient Air Quality Standard from 12 micrograms per cubic meter of air to 9 micrograms, a level approaching naturally occurring levels in many parts of







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the U.S.; The Department of Energy's recent freeze of liquefied natural gas export permits, which, risks "leav[ing] our allies [and] our manufacturers in the cold"; and The Securities and Exchange Commission's proposed climate disclosure rule, which "would increase manufacturers' compliance costs dramatically, reveal proprietary and confidential information and ensnare wide swaths of the manufacturing supply chain."

Employee Happiness Hits 4-Year Low

A report from BambooHR found that the overall average employee satisfaction score, which in part accounts for how likely employees are to recommend the organization as a place to work, in December 2023 dropped to the lowest overall average score since 2019. The report is based on data collected from more than 1,600 companies nationwide, representing more than 57,000 employees.

The satisfaction drop is driven by factors including inflation and financial woes, inconsistent return-to-office policies, evolving employee expectations, and layoffs, said Anita Grantham, head of HR at BambooHR. The lattermost factor is a likely contributor to the fact that tech workers are among the least satisfied employees. The bulk of recent layoffs have been in the tech industry, with firms including LinkedIn, Google and eBay announcing layoffs in the first quarter of 2024. Meanwhile, a growing focus on artificial intelligence is also sparking competition and uncertainty, employees told BambooHR.

Survey: PTO Trends at U.S. Companies Are Changing

New data about U.S. workers provided by the International Foundation of Employee Benefit Plans shows that paid time off (PTO) trends in U.S. workplaces are changing. The Paid Leave in the Workplace 2024 Survey Report reveals what organizations are offering their employees for vacation, sick leave, parental leave and bereavement leave. The report also highlights the types of paid leave employees are seeking most adamantly.

Although federal law does not require employers to offer vacation time to their workers, nearly all (99%) organizations surveyed offer this benefit. For most organizations, the number of paid vacation days increases with service. Only 12% offer a flat number of vacation days regardless of service. While most companies offer paid leave, many employees are simply not taking the time off. Heavy workload (44%) and lack of adequate staffing (23%) are the two most common reasons workers do not use their paid vacation time. That being said, roughly three quarters of employers (74%) encourage employees to take paid vacation days.

Employers Should Expect Higher Health Care Costs in 2024, Outpacing Inflation

The 45th National Healthcare Trend Survey by Buck, a Gallagher Company, is a longstanding effort to track the trends in health care costs. The report, which surveyed nearly 100 insurers and health plan administrators, found that the overall medical trend reported was averaging 6.8% to 7.3%, up 50 to 100 basis points from the trends reported in the prior survey—although the report noted a wide range of variation.

"As the price of gas, food, and other goods and services increases due to inflation, medical trend factors used by insurers to set premium rates have clearly been incrementally affected as well," said Kelly Conlin, managing director and chief actuary, U.S. Health Financial & Actuarial Consulting at Gallagher. "But we're also

seeing greater use of diagnostic tests and increased spending on research and development. While this investment may ultimately be the key to containing health care cost increases and improving patient outcomes, these advances tend to result in higher upfront development costs." Other factors emerged from the report as well; mergers and consolidations have given provider systems more bargaining power to negotiate higher prices, and drug costs continue to play a big role in increasing health care costs.

2024 Manufacturing Champions Named. Presentations to Occur April 26th at Awards **Breakfast And Workforce Developer Expo**

The Council of Industry's Manufacturing Champions Award is presented annually to individuals and/or organizations that "Through vision, dedication and tireless involvement have worked to overcome some of the many obstacles faced by manufacturers in the Hudson Valley and in so doing they have made it possible for manufacturers and their employees to prosper."

The Council of Industry Board of Directors is pleased to announce this year's Champions:

Barbara Reer - Assistant Dean for Workforce, Career Development, and Apprenticeship Initiatives at SUNY Ulster. Barbara has patiently and persistently built SUNY Ulster's Advanced manufacturing training programs over the past decade in support of manufacturing businesses across the region, not just Ulster County. The programs she has built have been key to the growth of the MIAP apprentice program.

Ron Hicks - Dutchess County Assistant County Executive for Strategic Planning and Economic Development. Ron has been a fixture in the world of economic development for more that 2 decades. His recent commitment to see the Mechatronics Lab built at Dutchess Community College's Fishkill campus is but one example of his vision and commitment to Dutchess County and Hudson Valley manufacturing.

Frank Falatyn - President, Fala Technologies and STEPs Industry Pre-apprenticeship – Founder / Executive Director. Frank's commitment to workforce development in the Hudson Valley is unmatched. He helped launch the Hudson Valley Pathways Academy P-TECH School. His support of apprenticeships and pre-apprenticeship programs was instrumental to the success of the MIAP program and has helped countless individuals find meaningful careers in manufacturing at his firm, Fala Technologies, and in many others throughout the region. His championing of manufacturing opportunities for neurodiverse individuals has been inspirational and transformative.

This year's awards will be presented at the Champion's Breakfast and Workforce Developers Expo April 26th at The Villa in Middletown. Sponsors are key to this event's success. Please join with JP Morgan Chase, Allendale Machinery Systems, Rhinebeck Bank, Central Hudson, Ulster Savings Bank and Ashworth Creative.

To support this or other Council events email info@councilofindustry.org

The Council of Industry names Barbara Reer, Ron Hicks and Frank Falatyn as the 2024 Manufacturing Champions. Congratulations and Thank you for your tireless dedication!

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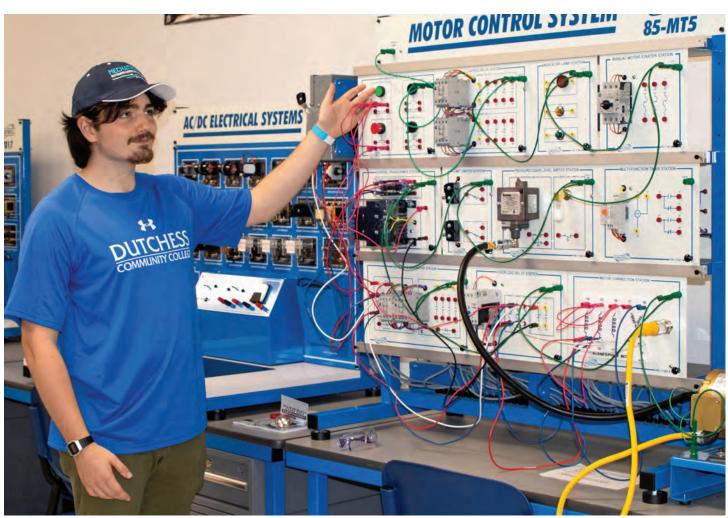
WORKFORCE SOLUTIONS

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DCC MECHATRONICS LAB MANUFACTURES A STRONGER WORKFORCE



or years, industries across the Hudson Valley have operated at a disadvantage. They work hard to stay on top of the latest manufacturing trends and offer best-in-class capabilities — but to do so, they must send their employees out of the region for training. Realizing the costs associated with this — not to mention the risk of losing some of that talent to those regions — members of the Hudson Valley Council of Industry sought better answers. They didn't have to look far. As luck would have it, Dutchess Community College had the perfect opportunity. At the time, its new Fishkill location, designed to extend the College's southern reach, had some unexpected capacity.



Electrical Technology student Robert Bohl shows off the Motor Control panel during the October 6 ribbon-cutting Robert introduced the First Lady at the event.

"When we designed [what was first known as] DCC @ Fishkill — just steps from the Interstate 84 and Route 9 interchange — we thought people would be interested in attending traditional, in-person classes on their way home from work, due to its convenience," said Chief of Staff and Vice President for Institutional Effectiveness Dr. Susan Rogers. "However, the surge in online learning fueled by the pandemic changed that somewhat." Fortunately, DCC has a long-standing collaboration with the Council of Industry and various economic development entities across the county. They began conversations and quickly identified a win-win scenario.

"They were telling us they wanted more of the education and training that's required in today's advanced manufacturing world — sometimes referred to as Manufacturing 4.0," Dr. Rogers added. "So together, we're creating the talent pipeline and maintaining the workforce we need right here." Starting in fall 2023, the Center of Excellence for Industry and Innovation at Fishkill became home to the region's first mechatronics training facility.

The Fishkill facility offers an array of programs designed to serve a broad student population. Those already in the field have the chance to gain new skills and credentials, often with flexible training hours, while students without prior experience can acquire the technical proficiency needed to launch their careers. Students can pursue DCC's certificate program in air conditioning/refrigeration and associate degree in electrical technology, in addition to short-term, industry-recognized credentials in topics ranging from pneumatics to robotics. Mechatronics Programming Coordinator Freddy Santiago said, "Cultivating a talented and technically advanced workforce within our community ensures that DCC is committed to the growth and sustainability of automation and advanced manufacturing in the Mid-Hudson region." Santiago has been organizing tours and trainings for industry groups and students.

The curriculum side of the project is led by DCC's Electrical Technology Program Chair Dan Barbuto. The lab has three main

In fall 2023, the Center of Excellence for Industry and Innovation at Fishkill became home to the region's first mechatronics training facility.

"Cultivating a talented and technically advanced workforce within our community ensures that DCC is committed to the growth and sustainability of automation and advanced manufacturing in the Mid-Hudson region."



Professor Dan Barbuto works with a student in the new Mechatronics Lab.

technology focuses: mechanical; electrical and automation; and HVAC. "I've been here 20 years, and this is the biggest project I've been involved with," said Barbuto, who has trained Verizon, IBM

and Phillips semiconductor technicians during his career. "The hiring in this area has been just tremendous. I've had more openings than I've had students." This demand is urgent, a point driven home by many area employers and economic development leaders. GlobalFoundries, which operated a microchip fabrication plant in Fishkill until the company was sold to OnSemi in 2022, was one of the biggest collaborators to provide input. Its leaders helped DCC identify the necessary equipment and skill sets, including an emphasis on multi-talented personnel and the need for flexible training hours that fit around students' work shifts. The New York State Department of Labor also helped inform the process, and the county stepped in with critical funding for the lab equipment.

Another important feature of the new Mechatronics lab is the type of student it will attract. "At the individual level, one of the populations this is intended to serve is those coming out of high school who may not feel drawn to a traditional college pathway," Dr. Rogers said. "It will also appeal to slightly older students — say, 25 and up — who are re-evaluating their career paths." The program will provide individuals who aren't looking for a four-year liberal arts education right now with valuable options for credentials in industries that need skilled workers and will pay them a living wage — and much higher in just a few years.

"This can really help them advance in their careers or shift into something with far greater earning potential, personal satisfaction and longevity," Dr. Rogers added.

DCC will also offer credit and credit-free courses to area high schools and BOCES programs, following its cradle-to-career philosophy of serving the community. "We can't wait to show middle and high school students

that this is a viable career path," Barbuto said.



VIP's tour the Lab following the October ribbon cutting. The Mechatronics Lab is quickly becoming a vital training resource for manufacturers across the Hudson Valley.

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First Lady Jill Biden, herself a community college educator, delivered the keynote and cut the ribbon to open the lab last Fall.

"We're creating the talent pipeline and maintaining the workforce we need right here."

As high as the anticipated demand is, DCC's leaders believe it will continue to grow as mechatronics becomes more widely known among the region's vernacular. Barbuto stated that the knowledge should be easier to share once the facility exists and people can see it firsthand. "One of the equipment pieces has seven stations and includes sensors, actuators and a robot," he added. "Each has its own logic controller, and each station completes a piece. It's essentially an assembly line."

In fall 2023, people did begin to see the mechatronics lab firsthand, followed by an official grand opening on October 6, with a very special guest in attendance. Dr. Jill Biden, our nation's First Lady and a longtime educator and advocate for community colleges, joined dozens of college and State University of New York (SUNY) officials, along with numerous business, government and community leaders at the ribbon-cutting ceremony at The Center of Excellence for Industry and Innovation in Fishkill.

"This will help students get the skills they need for the growing businesses here — preparing them for careers making everything from display screens to jet engines to semiconductors," said Dr. Biden, who was accompanied by U.S. Secretary of Education

Miguel Cardona. "As a community college professor, I'm so excited to see how this work changes people's lives."

The mechatronics program checks numerous boxes that will strengthen the long-term health and viability of the College, county and community, roles which DCC leaders are thrilled to play.

"We learned from the pandemic that online learning is a wonderful complement, but it will never fully replace in-person learning, especially in some fields," Dr. Rogers asserted. "In the mechatronics fields, hands-on training is critical, and we're positioned perfectly to give these businesses the competitive advantage they seek."

But the October launch of the mechatronics lab was just the beginning of the industry partnerships that could be so beneficial to the Hudson Valley's workforce. DCC is now working on a significant expansion of the Center of Excellence for Industry and Innovation at Fishkill to include a training facility in HVAC and Building Technologies. To get this going, on February 15, 2024, DCC convened an advisory committee of local businesses including Central Hudson, as well as P-12 partners, labor unions, the Council

of Industry, and members of the Dutchess County's Economic Development Advisory Council. This newly formed council will provide ongoing input and direction on curriculum, training equipment, and space needed for the expanded programming. They plan to meet every 4-6 weeks through the duration of the project. Funds have already been secured through SUNY for this project, and local industry partners are interested in contributing additional funds and equipment. DCC is excited to embark on this next phase in the full development of the Center of Excellence for Industry and Innovation!

To learn more about the Mechatronics Lab's programs and trainings, contact Freddy Santiago, DCC's Coordinator of Mechatronics Programming, at (845) 790-3645, or visit sunydutchess.edu/mechatronics.



Coordinator of Mechatronics Programming Freddy Santiago provides a tour for industry professionals..

"In the mechatronics fields, hands-on training is critical, and we're positioned perfectly to give these businesses the competitive advantage they seek."



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ELEVATING THE BADGE



Smith & Warren's President, Lee Galperin, center, with factory managers and employees who have been with the company for over 25 years.

Inc. The White Plains company designs and manufactures custom badges for police and fire departments, security firms, the military, and other agencies. We learned about the science (and art) of badge making, the integration of technology into that process, the vital role of quality and service in the business's success, the challenges and responsibilities of leading a second-generation family business, and maintaining a positive company culture.

HV Mfg: Thank you for making the time to speak with us. Tell us about Smith & Warren.

LG: Thank you for thinking of me for this interview.

Smith & Warren designs and manufactures badges that are worn by public safety professionals. We have been doing it now for 99 years. When I talk about the business, I like to start with our mission statement because I think it really sums up who we are. At Smith & Warren, our mission is 'to provide a positive buying experience for our customers and to produce the highest quality badges and insignia for departments and agencies across the world.'

We make badges for police departments, sheriff departments, fire/ EMS departments, the federal government, the military, private security companies, and more. We make the official duty badges worn on the uniforms as well as the flat badges carried in the wallets/ID cases. In addition to the traditional duty badge, we also make commemorative badges and awareness badges. We make medals and nameplates, insignia pins, collar letters and pins, tie bars, and service award/commendation bars. All of them are made in the USA, in fact, they are all made right here in White Plains.

HV Mfg: I'm going to venture to guess that most of our readers have not given much thought to badge-making. Take us through the process – from design to delivery.

LG: I guess that's probably true. It is a bit of a niche business, but I suspect most people will be familiar with the different processes we employ. Let's start with the customer. Say your hometown police department is looking to design a new badge. They will reach out to us and together with one of our designers we will discuss design options. They may opt to start with a standard design. On our website, we have a program called "VisualBadge" that allows a user to select from over 1,500 badge design templates. They can then design the entire badge on the screen with different lettering, metal

finishes, attachments, and other options. If they want something truly unique we can work with them on a full custom design using our "BadgeStudio" program. With BadgeStudio, we can incorporate their town seal, landmarks, landscapes, core values, and other features that represent their department or community. Once a design is agreed on, our production team will lay out the steps needed to manufacture the product.

HV Mfg: Do those steps vary?

LG: They can, depending on what is featured in the design. All badges will start in the stamping department where the raw stamping is made in a 650-ton coining press. We have dies and tools for our standard designs, but for use BadgeStudio for full custom designs, and start by cutting the dies and tools. For that, we employ the use of 3D CAD, CNC milling, laser die-cutting, and wire EDM. We have an incredibly talented team of digital 3D designers, die-cutters, tool-makers, and machinists on our team that make these badge designs come to life. All badges will then be individually engraved. We have over 125 rotary engraving machines operating daily. To staff this operation we provide inhouse training for graphic layout and machining jobs.

After engraving the next step is referred to as "assembly". Here is where our skilled handicraft artisans get involved. Each badge design will have some combination of soldering, enameling, and polishing. The colored enamel can be applied using paint, but the majority of Smith & Warren badges utilize an enamel method called Cloisonné Hard Enamel. This is a process by which glass is fused to metal. It is an ancient art that has mostly been lost, but our company continues to train people how to do it and is keeping the tradition alive. Glass has largely been replaced by epoxy resin in our industry, but we know glass is way better so we have committed ourselves to continuing to offer it.

One of the final stages of production is the metal finishing. We have

a state-of-the-art electroplating facility that uses the latest equipment to finish badges with a uniformly thick and durable precious metal coating.

Once the metal finishing is complete each badge goes through a quality inspection and, once that is done, the badge is boxed to be shipped and delivered to the customer.

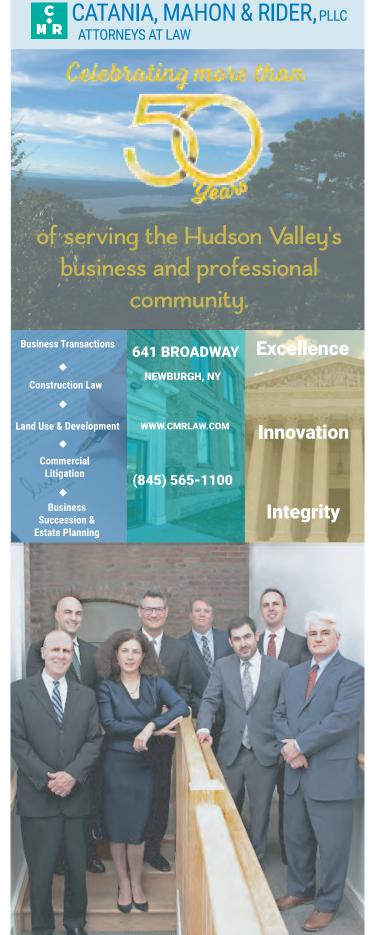
HV Mfg: Quality must be a major priority for you.

LG: The top priority. Badges pass through numerous rigorous quality control stations throughout production. Prior to shipping, each order is carefully inspected by hand for quality, accuracy, and completeness.

While this is the end of our process - our time with the badge - we like to remember that for many of our clients, receiving this badge is going to be one of the most important events of their lives. I know that can sound a bit dramatic but in many cases, the new badge means the start of a new career in public safety, new responsibilities,



A solderer inspects their work before the next step in production.



a promotion, or even an honorable retirement. Chances are the presentation of the badge is a special moment and we want that moment to be perfect.

It is something that I think makes our company special, the fact that our employees 'elevate the badge' they feel great pride and the responsibility that goes with making something very significant to the people who will wear what they made.

HV Mfg: We can see where that can be a powerful motivation for the right people. We will come back to that, but for now, talk about how you came into the business. You are second generation, correct?

LG: That is correct and there is a bit of a story, not only about my coming into the business but about how my parents acquired it. My father immigrated to this country from Romania in 1967. He came here with a degree in petroleum engineering but went on to get a master's in mechanical engineering from Columbia University and eventually his Professional Engineering (PE) license. He worked for engineering firms, but by the late 1970s he knew he wanted to do something more entrepreneurial. In 1982 he bought into an electroplating business, Electroplating Service, Inc. The business was successful until the late 1980s when manufacturers in the region started closing up facilities and moving them to lower-cost regions. Even though their quality and service were good, he saw the handwriting on the wall and started looking to diversify. He wanted something where he could still apply his engineering talents but also would be less likely to be threatened by offshore competition. He also wanted to make a complete product and not be a subcontractor.

In 1989 my father saw an advertisement in the New York Times for a small badge manufacturing company in NYC for sale. He and my mother decided to buy it. The company was very small, but he felt confident with his technical expertise and experience in metal finishing that it represented a great opportunity. That company was Smith & Warren.

He and my mother were running both businesses, but within a short time started to realize that the badge business had great potential. They started to put all their efforts behind it.

HV Mfg: Were you involved at all in any of this transition?

LG: Not really. I mean I was in high school and college during this time. Frankly, the business was very small and my parents did not really present it as an option. They wanted my sister and I to pursue professional careers.

HV Mfg: Where did you go to school?

LG: Lehigh. I graduated in 1997 with a degree in Finance and Accounting and took a job with Arthur Anderson in financial audit. Meanwhile, Smith & Warren was starting to do well and was steadily growing. The business was still small, but my parents were figuring out some things that would eventually become our competitive advantage. My opportunity to join the business came in 1999. A competitor came up for sale. This business was about 2x our size and represented an opportunity for us to go from servicing primarily a regional market to a national market because they had a national network of dealers and a broader product line.



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A worker carefully checks badges following the application of an electroplating mask

While working at Arthur Andersen I started to take an interest in the business and helped with some of the financial documents needed to complete the transaction. I wanted to join immediately after the acquisition in June 1999, but my parents encouraged me to remain in public accounting to get my CPA license. In January 2000, after getting the CPA license, I left public accounting and joined Smith & Warren with my parents. My sister joined us a year later.

HV Mfg: And your parents stayed on?

LG: Yes. We all worked together for 12 years. My parents had great chemistry at work. My father had the vision and a relentless work ethic. He moved fast...really fast on his ideas. My mother was a great administrator. As fast as my father moved she was able to keep everything straight. Employees got paid, bills got paid, orders were processed and the lights stayed on. The first few years I worked inside the factory learning the operations and improving my technical skills. After I got a handle on operations and with my father leading our manufacturing operations, I saw a big opportunity to develop our sales and marketing operations. While my father continued to build our manufacturing capabilities I spent a lot of time working on growing our dealer network and bringing in new business. Eventually, I had to turn my attention back to operations as it became clear that this business had a big future and I would eventually need to lead it. We worked together until the end of 2012 when my parents sold the business to me and my sister.

HV Mfg: If your father built and improved the process side of things as a trained engineer, are you focused on the operations and financial side as a CPA and former consultant?

LG: Yes, that is fair to say for the 12 years we worked together. My father is an excellent engineer and has great business instincts. While not an expert in marketing, he understood what customers wanted. While the industry standard was to manufacture badges in 4 to 6 weeks my father decided in 1990 that he would make

them in 2 weeks. The big players at the time scoffed at the idea, but he figured it out. My father and I definitely think differently, but that was probably an advantage. We came to every project from a different angle. That probably allowed us to get them done even better.

HV Mfg: How did you cut manufacturing time in half? Did Technology play a role?

LG: A lot had to come together to cut manufacturing time in half, but our effective use of information technology launched us to the next level. Our business is very unique in that we manufacture a highly customized product in relatively high volume. We average about 40,000 SKUs in process at any one time – sometimes it gets as high as 70,000 SKUs. My father and I realized we needed to get a better handle on our operations to scale.

Our ERP system, known as VBadge, is completely customized and truly appreciated by our entire company. In 1992, my father had the idea of hiring a programmer and building customized software to manage orders and production. As the company grew so did the software and eventually, we decided to make it a full custom ERP and it has worked out well.

We have so many customers and dies and raw materials, that none of the off-the-shelf systems were ideal. Each felt like we were trying to fit our round peg into their square hole. VBadge gave us the ability to accurately move products through the factory faster without sacrificing quality because of enhanced operations management tools. Because we developed the ERP, we can adapt it to our evolving needs, and in 2023 we began work on the next version of VBadge.

HV Mfg: Let's circle back to something you said earlier – "elevate the badge." What do you mean by that? It sounds almost like a rallying cry.

LG: It's more of a philosophy or a way to remind us of the importance of what we do for our customers and to keep our

Because a quality product and the buying experience are our priorities, each process, each step, and each person is critical to our success.

focus on quality and service. If our mission is to provide a positive buying experience and make the highest quality product, then prioritizing – or "elevating" – each and every badge keeps us focused on that mission.

HV Mfg: We walked through the factory not long ago and were impressed by the engagement of the people on the floor. From what we saw they clearly are committed to their tasks and understand how and where they are contributing to the finished product.



Ensuring all the important badge details emerge after being squeezed by a 650 ton hydraulic press.

LG: I appreciate hearing that and I agree. I think we have a great group of people here. We have a little more than 150 team members now, most live near the plant right here in White Plains and every one of them is important. That is more than a cliché. As we discussed earlier, we have so many steps in our process and so many SKUs winding their way through the plant it means that everyone is dependent on someone else - and everyone is responsible to someone else - if we are to get the job done. And because a quality product and the buying experience are our priorities, each process, each step, and each person is critical to our success.

Having people working with us who understand that and who embrace that is what differentiates us from our competition. I'll tell you a quick story. A few years ago we had a new hire who did not show up to work one morning and didn't call or touch base in any way. The next day he came in and I went to see him and I said: "Hey, we missed you yesterday, if you are sick or can't get here give us a call." He said something like: "Okay, I didn't know, I figured I'm only paid when I work so it didn't matter."

I told him he did matter – I explained that – for one thing, we were worried about him – and for another thing his not being there left a hole in production. Other people had to cover, production schedules got disrupted and we might not have been able to deliver some products on time. He did not realize his value to the business and seemed to respond positively to the conversation. He was not just a number, he was part of a team and his contribution was valued.

I learned from that experience that I have to keep reminding people of where they fit in and the important role each of them plays at Smith & Warren. We are a team and when on the shop floor we need to operate at our very best.

HV Mfg: Describe your leadership style.

LG: I guess fundamentally it is to lead by example and to listen.

I believe it is important to be present and to work hard, which sets a good example. I think good leaders seek feedback and listen because people need to feel heard, and frankly some great things come from listening to the people touching the badges every day. I want to make sure our folks believe that they are part of something important – because they are.

With that said I also think it is important to be decisive without being stubborn.

HV Mfg: What are some of the challenges you see in the near future? What are some of the opportunities?

LG: I guess one challenge would be competition from low-cost offshore competitors. For the most part 'Made in the USA' is still important for our customers, however, that can change as the cost model changes.

We always need to look to be more efficient in making our products so we remain competitive. But efficiency can never come at the cost of quality because that is our highest priority. Our website, for example, has proved to be highly effective and efficient and the quality of the customer experience has only improved.

We are also always looking to acquire complementary businesses so we can grow and build economies of scale. Not aggressively looking, but over the years we have acquired some companies, including two in 2023, and we will continue to be open to acquisitions.

HV Mfg: Thank you for your time – we learned a lot and will never look at any badge quite the same way again.

LG: Thank you. I enjoyed speaking with you and I appreciate the work the Council of Industry does for manufacturers like us.



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his statement could not be more true for the current state of American manufacturing but this dynamic appears to be changing. The real question to be asked is why, over the last twenty plus years, have U.S. companies moved the bulk of their manufacturing operations overseas and why do these manufacturing operations now seem to be returning to America?

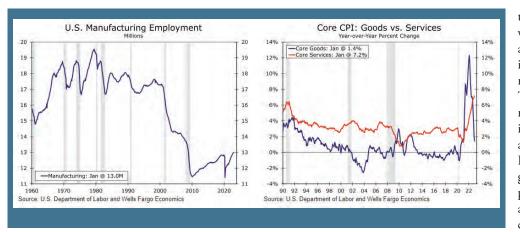
"U.S. companies are better innovators and allocators of capital. The rise in construction of manufacturing facilities and the state of the art equipment added to those facilities has helped generate higher productivity levels and made U.S. manufacturing competitive with most other countries."

The answer is multifaceted but the offshoring trend coincided, in part, with the admission of China into the World Trade Organization ("WTO"). China was approved to enter the WTO in 2001 and the prevailing notion was that China would become more

tightly integrated into the global economy and, open its markets to the world.

What happened? The entry of China to the WTO enabled the U.S. and other nations to gain access to lower cost labor which changed the economics of manufacturing. In other words, because of the lower labor costs in China, U.S.

however, was that the U.S. domestic manufacturing base began to crumble and experienced further dislocation to Asia. The chart below on the left highlights the drop in U.S. Manufacturing Employment from this shift.



Fast forward to 2024 and we are seeing a rebound in American manufacturing. The "reshoring" movement initially began after the "Great Financial Crisis", gained steam post COVID-19 as global supply chains were disrupted and

consumers paid lower prices for certain goods. The downside,

remains strong today. The reshoring shift is partly responsible for the



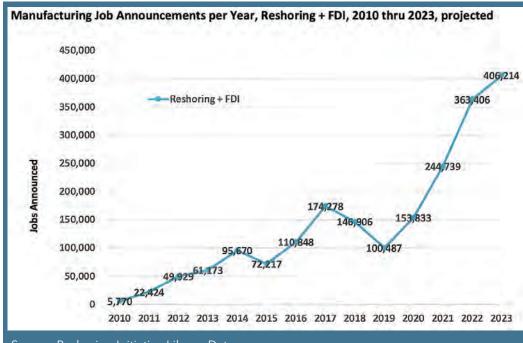
strong U.S. employment metrics and has become a tailwind for domestic GDP. Over the past decade it is estimated that we've added close to 1.5mm new jobs with no discernible signs this trend ending any time soon.

Recent strides in U.S. manufacturing capabilities have helped to close the cost gap versus goods produced in China. In fact, a survey conducted by the Boston Consulting Group estimated that it is 2% to 3% cheaper today to make goods in the U.S. than in China. A major factor in this analysis is the narrowing wage gap between the U.S. and China. Chinese manufacturing wages have risen over 187% in the last decade while U.S. manufacturing wages increased only 27% over the same time period.

Other factors contributing to this dynamic include (1) the increased automation in U.S. manufacturing facilities which has led to productivity gains, (2) shorter supply chains (and therefore, lower shipping costs) and (3) increased Innovation (R&D budgets have increased across all sectors as a direct result of tax breaks and other incentives provided by the U.S. government and engineers and manufacturers are working more closely). The passage by Congress of the Jobs Act in 2021, the CHIPS and Science Act in 2022 could infuse up to \$550 billion into the domestic economy in the coming years.

The last point on innovation and capital allocation is greatly under appreciated. If we were to use the capital markets as a proxy for the health of the economy, we have seen an average annual return for the S&P 500 over the last 15 years of 9.76% vs. the 2.31% average annual return for the ACWI (i.e. rest of the world

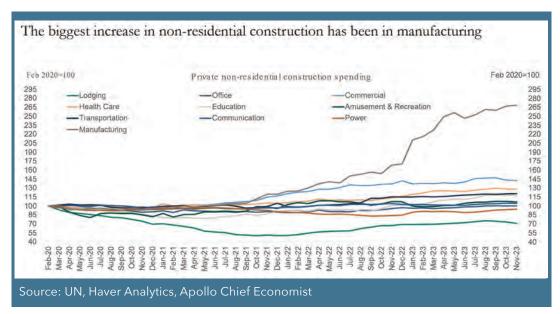
ex-USA). The disparity in these return metrics is explained, in part, by the fact that U.S. companies are better innovators and allocators of capital. The rise in construction of manufacturing facilities and the state of the art equipment added to those facilities has helped generate higher productivity levels and made U.S. manufacturing competitive with most other countries. In fact, U.S. productivity growth was 3.9% in 2019, 2.4% in 2020, 1.9% in 2021 and 4.7% for the first 3 quarters of 2023.



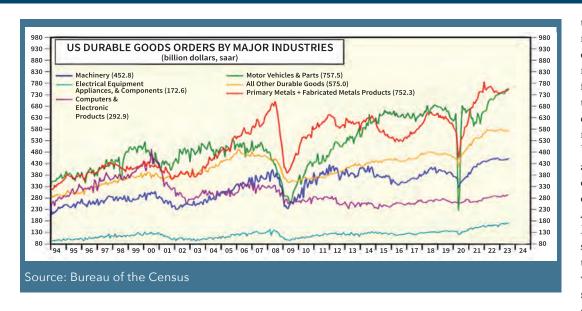
Source: Reshoring Initiative Library Data

American manufacturing now compares favorably to places like China and it's worth noting that China could face a major demographic issue in the coming years as it could lose ~100mm workers as a result of the government's "One Child" policy. The loss of this labor pool could drastically impact China's ability to compete economically. Conversely, India and Africa, have increasing populations and inexpensive labor but have substandard infrastructure and institutional challenges.

A last wrinkle to consider in the U.S. reshoring trend is the trade barriers put in place during the Trump Administration and maintained by President Biden. Part of the rationale for these trade barriers was to level the proverbial economic playing field as it was alleged that China dumped products into the U.S. markets at prices that made it unprofitable for U.S. companies to compete. U.S. tariffs combined with the re-shoring trend has enabled the U.S. to level the economic landscape.



The "reshoring" movement initially began after the "Great Financial Crisis", gained steam post COVID-19 as global supply chains were disrupted and remains strong today.



the goods and products it needed which kick started our spiraling inflation. In its recent survey, the consulting firm, Kearney, indicated that 47% of manufacturing executives said they had re-shored operations to the U.S. with an additional 29% acknowledging that they had decided to bring back some operations within a few years. Another consulting firm, McKinsey, announced in a survey from April of 2022, that 44% of the respondents were "regionalizing" their supply chains. These moves by domestic manufacturers are a

Covid-19 also helped to accelerate many of the reshoring trends. When China shut down, the U.S. was not able to procure

direct result of China's increased adversarial actions.



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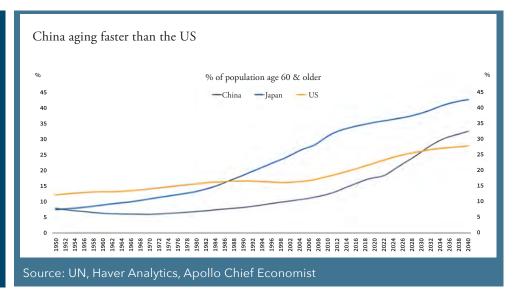
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"Our local economy has benefitted from recent "reshoring" trends as distribution facilities have sprouted up in and around the Route 84 NYS Thruway corridor."



It is worth noting that our local economy has benefitted from these recent "reshoring" trends as distribution facilities have sprouted up in and around the Route 84 NYS Thruway corridor. Anecdotally, an Orange County based corrugated box manufacturer recently began to upgrade and expand its manufacturing capacity by over 40%. The expansion will add roughly 50 new jobs and help support distributors in the region.

In closing, we should not forget that the U.S. has the rule of law, limited government regulation, and low-cost transportation and is protected by the largest military in the world. It is for these reasons

that significant investments have been made to rebalance costs and increase productivity which should enable the recent uptrend in manufacturing and employment to continue.

Gus Scacco President and CIO of Hudson Valley Investment Advisors.



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COMPANY PROFILE

JAMES L. TAYLOR MANUFACTURING | BY JOHNNIEANNE HANSEN

MORE THAN A CENTURY OF QUALITY AND CUSTOMER FOCUSED INNOVATION IN POUGHKEEPSIE



Josh Renner (Left), Jake Greenfield (Center), Gordon Burdis (Right) are continuing James L. Taylors long tradition of customer focused innovation.

he Council of Industry has been supporting manufacturing firms in the Hudson Valley since 1910. That is 114 years. For 113 of those years, Poughkeepsie-based James L. Taylor Manufacturing has been a member of our association. Its 43 employees design and manufacture equipment for the woodworking industry. From simple clamp, gluing and laminating machines to highly automated chop and vision scanning systems, James L. Taylor's products set the standard for the industry and are used by furniture and cabinet makers across the globe. In many ways, in fact, James L. Taylor typifies Hudson Valley manufacturing – innovative, creative, global, high tech in both products and process, and – perhaps most important, resilient.



Long time employee Karim uses a vacuum gripper to load sheet metal into a CNC Laser. The CNC Laser is one of the cornerstones of the Taylor factory.

■ THE INDUSTRY

To best understand the company today it is important to know its founding and evolution. It is also necessary to understand the key role glue plays in the manufacture of furniture, cabinets, doors and other wood products. Any time you want two pieces of wood to join together glue is necessary. A quality wood table-top, for example, is not made from a single plank of wood but from several joined together. The planks are selected for their quality, cut to size and joined together using a variety of techniques – all of which require clamping and gluing. Different glues require different curing times.

James L. Taylor makes the equipment woodworkers use to complete this process. The company makes machines that are used in small woodworking shops as well as machines used in high volume cabinet, furniture and flooring operations. While clamping and gluing machines are the core of the company's products, they have, through the years, branched out to make equipment that assists in other parts of the process, including vision systems and rip systems to maximize board yield.

■ MORE THAN A CENTURY OF INNOVATION

In 1911 James L. Taylor established the James L. Taylor Manufacturing Company in a small factory building on Parker Avenue in the City of Poughkeepsie. There, the company produced his quick-adjusting, self-locking bar clamp. This patented clamp was a significant step forward in the edge gluing of lumber and was a commercial success.

In the 1920s, in response to technological advances in adhesives, the company developed and patented "The Taylor" revolving clamp carrier. This innovative machine was a major first step toward mass production in the U.S. furniture industry.

In 1940 Taylor engineers developed the Panel Flo, a continuous feed edge gluing machine. From the very beginning, the Panel Flo was acclaimed as the answer to mass production gluing. In 1950 Taylor introduced the Panel Mint, a batch type semiautomatic edge gluer which filled a manufacturing need in the industry between the Clamp Carrier and the fully automated Panel Flo.

During the 1950s and 1960s, Taylor designed new accessories to complement the Panel Flo and Panel Mint that helped customers improve efficiency and cut costs. These included the Conveyorized Glue Applicator, Mix-Mizer and Automatic Cut Off Saw. Also, in the 1960s, Taylor revived the Clamp Carrier from the 1920s. Revamping its design with the introduction of the pneumatic Clamp Tightener and Panel Flattener.

During the 1970s, the Taylor Panel-Mint was the machine of choice. This Steam-Heated Batch Press matched with low-cost urea resin glue. The well-designed machine was used by many furniture manufacturers to produce hardwood and softwood panels.

Midway through the 1980s, Taylor designed and produced the first automated clamp carrier. This changed the direction of the clamp carrier line and made it the industry standard for edge gluing machines. The company introduced increasingly advanced automated products throughout the 1990s and 2000s, including rip systems, vision scanning systems, panel layup and color matching machines.

Taylor Manufacturing remained at the Parker Avenue factory until August of 2014. Through the years that building had been expanded and updated to accommodate the new technologies and product lines necessary to provide their customers with quality machines. Eventually, however, the company needed more room to expand and improve their manufacturing processes and in 2014 they relocated just a few miles away to Salt Point Turnpike in the Town of Poughkeepsie.

■ ONE COMPANY, THREE PRODUCT LINES

Today the Salt Point Turnpike facility is home to the company's three product lines - JLT Clamps, Taylor Products and Cameron Automation.

JLT Clamps is a world leader in door and panel clamping machinery for small and large custom woodworking shops. These products include: face frame tables, stile and rails squaring clamps, miter squaring clamps, entry door clamps and drawer clamps.

The Taylor Products line is the Industry Leader in room temperature gluing and laminating equipment. Products in this line include clamp carriers for panels, doors, furniture components, flooring, molding blanks, and more. Clamp carriers are machines that enable multiple panels to be assembled at one time using room temperature gluing without giving up valuable shop floor space. Room temperature gluing is the most forgiving and versatile way to glue up panels, treads, molding blanks, furniture components, flooring, railing stock, posts, and beams. Other products in the Taylor line include: conveyor systems and glue mixing, and application system.

As the name implies, the Cameron Automation line is machinery for automating and improving common rough mill processes. This line, named for former company owner and president Steele Cameron, was first introduced in 2002. The Cameron Line has helped revolutionize the woodworking industry with products that automate repetitive processes, maximize raw material yield, improve accuracy and consistency, and improve shop safety. Products in this line include: rip systems, chop optimizers, vision and scanning systems and panel layup and color matching machines.

Snaii

Taylor relies on a skilled group of employees to assemble their machinery. Scott, shown above, is assembling I-Beams for a Clamp Carrier. These I-Beams hold the clamp arms that glue the panels.

A FOCUS ON THE CUSTOMER

How does a small manufacturer in Poughkeepsie not only last for 113 years but advance to be an industry leader? We put that question to Taylor's leadership team of Gordon Burdis, President; Michael Burdis, CEO; Jake Greenfield Vice President of Manufacturing; and Josh Renner Vice President of Engineering. The response, almost in unison, was "We listen to the customer."

"The woodworking Industry has always been changing and continues to change," Gordon Burdis says. "We are able to keep up with it, hopefully stay ahead of it, by maintaining close relationships with our customers. If we know what their opportunities are, what their pain points are, what their competition is doing – then we can develop products that they want and need, that provide value."

Indeed, customer satisfaction permeates the company culture at Taylor Manufacturing from top to bottom. (Our interview was slightly delayed while the team solved a problem for a customer.)

"From the day I started it was drilled into my head that we are going to take care of our customers. It is the focus of every employee here." Jake Greenfield said. "I know Mr. Burdis (Michael) had a lot to do with that but I assume in goes back even further than him because 'focus on the customer' is ingrained into everything every employee does every day."

That customer focus has led to strong long-term relationships with clients, which in turn has driven much of the innovation in Taylor Manufacturing's product lines through the decades.

Greenfield offers an example. "We make a product for the flooring industry that I was heavily involved in," he says. "The

product has proven to be very successful in large part because of customer input. We have a lot of competitors in the flooring industry, but we're the easiest to work with so they are always pitching us new ideas. Sometimes it's a modification to one of our existing machines, sometimes it's a request for an entirely new machine."

Michael Burdis adds. "It happens all the time. Hardly a week goes by where one of our customers, in their efforts to improve efficiencies, hasn't come to us with a request to make something for them."

■ VERTICAL INTEGRATION

Key to Taylor Manufacturing's ability to maintain strong relations with their customers and meet and exceed expectations is a decision the company made decades ago. They would control as much of their process as possible by doing all they can "in-house." From design and engineering to sheet metal work to fabrication to powder coating to



Many of the machines have welded components and frames. Gino, shown above, and his 45+ years of experience is one of the (3) employees who focus on this area of the manufacturing process.

programming, Taylor employees design every machine, make nearly every part, install every component, program every controller and test and, when necessary, service every machine they sell.

"We want to be able to control the quality and the availability of all the key parts of the products we make," Josh Renner says. "It helps us control our process and scheduling better which leads to faster turnaround for orders, better reliability and higher quality."

It is worth noting that this integration proved advantageous during the pandemic, a time when supply chain challenges were

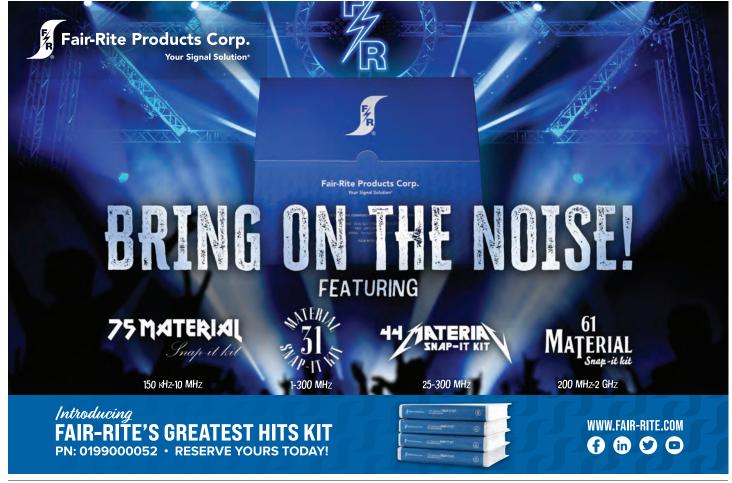
wreaking havoc on manufacturers everywhere. With fewer suppliers to depend on the company faced fewer bottlenecks and was able to continue to deliver to its customers. "I wouldn't say there were no disruptions," Gordon Burdis says. "But we were able to meet demand and maintain our quality and reliability."

■ A SKILLED AND DEPENDABLE WORKFORCE

For a small company to keep all manufacturing processes in-house requires a skilled and versatile workforce, and the team at Taylor fits that bill. "We have a great team in place here," Renner says. "We have a good mix of older skilled workers and younger employees. We have pretty low turnover because people really like to work here."

"It's challenging and rewarding, It's a little different every day. People get to dig into their work and see the finished products shipped to customers." Greenfield adds.

"For the right person, and we seem to have a whole lot of the 'right people,' this is a great place to work," Renner says. "But it's not for everyone. For example, we expect a lot from our engineers. We expect them to be programmers, to build machines, to talk to customers, even sometimes to go on the road and fix machines. Not everyone wants to do that, some people just want to design. But for the person who likes a variety of challenges and wants to be a part of





Taylor annually manufactures hundreds of JLT Drawer Clamps, pictured above, as well as many other models of assembly clamps to be shipped throughout North America.

solutions - we are a wonderful place to work."

Key to finding the right people has been the company's reputation and referrals from employees, suppliers, customers, or even just people in the community familiar with the company. "Nearly all of our people are recommended to us, either by a current employee, or someone who knows us well. We don't really find them on big online job boards," Renner says. "We don't take that for granted though, we work to build and keep relationships with places like Dutchess Community College to keep a pipeline in place."

"I want to add that these skilled and versatile employees, whether we're talking engineers or folks on the floor, don't just show up knowing everything and start cranking out work overnight. "We invest a lot of time developing people," Gordon Burdis says. But, like Josh said, if they have the right attitude and aptitude, we are happy to spend that time and it usually pays off in a good, long-term employee."

■ CAUTIOUS OPTIMISM ABOUT THE FUTURE

The woodworking industry was a sector of the economy that grew during the pandemic as lockdowns drove home renovations that included new kitchens and furniture. James L. Taylor products were very much in demand and the company was at or near capacity for several years. In late 2023 and now in 2024 things have slowed a bit - a change that is welcomed by the leadership team.

"We are happy with the pause," says Gordon Burdis. We welcome the chance to settle down and regroup, get ready for what we see as sustained growth going forward."

Michael Burdis thinks the company is in a good position to be successful moving forward because it can build on its past. "I tell the young guys all the time – and they listen and agree – to be successful we have to have three things working together at the same time. We

need the tried-and-true products that got us where we are. We need a 'center section' – the products that we recently developed that are profitable and have a life cycle of 15-25 years. And we need to always have new products in development that will be ready in 3-5 years."

Customer feedback largely determines what the next generation equipment from James L. Taylor will be, but it is not the only factor. The company's evolving capabilities and expertise is also a factor.

"Josh mentioned earlier a machine we developed for the flooring industry that he worked on. The customer had a need, and there was a solution out there a competitor has a machine to do the job that costs \$750,000. We developed a solution that costs a small fraction of that and does the same job. It's a great example of us using our experience and expertise, applying some lessons learned years ago, to develop a new, lower cost solution for our customers and a profitable machine for us," Renner says.

That is the same model of success and innovation that has worked for James L. Taylor for more than a century and is likely to carry it forward for the foreseeable future. So next time you are in your kitchen, take a look around and think about the machines used to assemble your cabinets, the table where you are sitting, the floor it rests on, or the door to the dining room. Chances are pretty good that one or more of these were made with James L. Taylor equipment, manufactured in Poughkeepsie, New York.

Johnnieanne Hansen is the Vice President of the Council of Industry.



MANAGEMENT STRATEGIES

RBT CPAs | BY STEVEN E. HOWELL, CPA, DABFA

ERP IMPLEMENTATION: INSIGHTS FROM PEOPLE WHO HAVE BEEN THERE



f you're considering adopting an Enterprise Resource Planning (ERP) system, it likely means your business is doing well and has reached a point where getting to the next level requires systems that will promote efficiency and effectiveness, or you're getting systems in place to support big growth over a long period of time. Congratulations either way!

My goal in writing this is to provide insights to maximize what an ERP can offer, and pitfalls to avoid, by sharing my own experiences and two case studies from local manufacturing businesses.

To start, what is an ERP? It's a business software solution designed to manage data, resources, and operations. In lieu of separate systems for different functions, an ERP integrates and automates a variety of processes in one system, providing one source of "truth"; the ability to use data in ways that separate systems unable to communicate with each other can't; and eliminating one-offs, work arounds, and fixes that cost time, money, and business.

With an ERP, you can have one system for accounting, customer relationship management, e-commerce, finance, human resources, inventory management, manufacturing, marketing, procurement, productivity, sales, supply chain, time systems, scheduling and more, depending on the modules you choose. An ERP is scalable, so you can add new capabilities as your business grows or needs change.

In the past, ERPs were used primarily by very large, complex organizations. The cloud has made it more accessible, prompting businesses of all sizes to consider one as part of their digital strategy.

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So, what can an ERP do? Depending on the system and modules you purchase, as well as the work your team puts into it, an ERP can boost competitiveness by helping your business operate more efficiently and effectively.

You can use data to schedule projects and production more effectively; make more informed decisions in real-time; more accurately estimate and track costs; automate tasks so staff can focus on value-added activities; improve customer service; reduce lead times; maximize production and profitability; and use data for predictive modeling.

ERPs can also help improve internal controls for accounting, financial reporting, and compliance; set the stage for growth, a new

line of business, or a new business model; and support remote and distributed workers.

If you are losing time tracking down data...if your systems don't "talk" to each other, limiting what you can do...if you've lost business, profits, or productivity due to data issues...if regulatory compliance keeps you up at night...or if you're ready to move to the next level, it may be time for an ERP.

Beware! An ERP is not a silver bullet. You get out of it what you put into it. Moving to an ERP is a major undertaking requiring collaboration, teamwork, time, and commitment. Interested in learning more? Two leaders of local manufacturing companies generously agreed to share their ERP experiences.

Case Study: PTI

PTI manufactures equipment for leak detection in high-risk industries. Today, it has 65 employees working in New York and Switzerland. The company was having challenges managing forecasting and inventories. More people were required to help manage back-office work and data entry, increasing costs due to

the need for manual processes, interventions required, and time spent trying to catch problems and fix them before they escalated.

CEO Oliver Stauffer explains, "Because of the unique nature of our business, we needed more than what basic systems could provide. We saw the potential for gains in linking material and financial information effectively, and we knew we needed something that would cover the full enterprise to get the most long-term value in terms of cost savings.

About a year ago, we decided to explore an ERP. One of the best decisions we made was to hire a firm to help us select the right ERP for our business. We had a team of about 10 people representing key parts of the business provide input. The search firm evaluated more than 50 different systems based on our requirements and identified three that could work. We conducted a rigorous selection process and chose the vendor and system we wanted to move ahead with in September. Implementation started at year-end.

Originally, implementation was going to take three months. We didn't want to rush and were more concerned about getting it right, so we extended the implementation period. We found a system that does most of what we wanted,

with some customization and upstream infrastructure required.

I think choosing the right ERP is the most critical part of the process. Hiring a firm to help you understand which system will best serve your needs is so important, as is gaining input and buy-in from all departments.

Be prepared to address what happens when the system may not be exactly what every department wants. Not everyone may end up happy, so you must find a way to navigate to a place that everyone can live with. In PTI's case, that meant agreeing to additional sales infrastructure. Finally, you need a champion – someone who is going to oversee the entire process and maintain momentum and buy-in from start to finish."

If you're considering an ERP system, Start by doing some research. Ultimately, you'll get out of it what you put into it.

Case Study: MPI, Inc.

MPI is the world leader in wax-room and ceramic core injection, assembly, and automation equipment, with operations in Poughkeepsie, NY, and sales worldwide. MPI previously had an ERP, but the company that created it stopped providing maintenance and was sold. With each piece of MPI equipment having about 2,000 part numbers adding up to over 65,000 parts across the product line, MPI leadership knew it was time to change.

A large internal team was involved with the planning. They hired a company to help value stream processes and select the final ERP solution. They also chose an implementation company with a solid background in project management.

According to MPI President Aaron Phipps, "The client manager at the implementation company knew what he was doing and everything was going fine, but he decided to leave his firm. We ended up moving to another implementation company, but we found they lacked project management skills and most of the responsibility shifted to us. Two weeks before go-live we were told the project was on time and in budget. By go live, we found we were two months behind and \$100,000 over budget. We didn't stay with them.

When it comes to choosing software, you have to be careful. Some vendors are so focused on the sale that they make promises that they can't keep. We chose an ERP that's well-known in the industry and has been around a while. Still, if I knew then what I know now, I would have gone a different route. We gave up a lot. Our business doesn't fit with the system's out-of-the-box solution.

That said, we are using the system and getting some benefits from it. We have better data and can make better decisions. My Engineering Department would say there are benefits from consistency through the entire company. The software helped unify and align operations across the company."

What advice does Aaron give based on his experiences?

- "Be aware that certain things can exist outside the system and be more accurate and less expensive.
- With the new ERP, it is more expensive to run our business and certain tasks involve more work. You have to be prepared to dedicate staff to maximize what it can do.
- Up front, define what the completed project includes and do
 not allow additional charges until completion is reached. For
 example, up front we confirmed how one link should work, but
 it didn't. After a lot of effort, they agreed we were right and said
 they would update it during the next upgrade six months later,
 or we could pay to expedite it. We just threw it out. Having
 a definition of project completion would have helped address
 issues like that.
- When evaluating a system, look at procedures everyone does like clocking in and out, and count the number of clicks it takes to complete a task. You may find an ERP adds work.
- Everyone in the company needs to understand how their actions



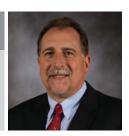
affect others. For some people, the new system is better but for others it's harder.

- An ERP implementation is harder and more expensive than you think. We went with a number of modules and then decided to pull back and drop a few. The cost is far more expensive when you take into account the software, implementation, and service fees.
- Vet all of the subcontractors as best you can and be prepared with contingencies."

Make no mistake about it, this is a huge time, cost, and personnel commitment. As the case studies show, you can do everything right and still face significant challenges that you need to muscle through. Still, it is a game-changer for many and can set the stage for operational efficiencies, cost effectiveness, and more.

If you're considering an ERP system, start by doing some research. Talk to colleagues about their experiences. Do a costbenefit analysis to ensure it's the right time to move ahead. Be prepared for what it will take – your staff will be shouldering extra responsibilities for several months and possibly even years – as you make the transition. Training and upskilling will be required. You may need full-time resources to maximize ROI once a system is in place. Ultimately, you'll get out of it what you put into it.

Steven E. Howell, CPA, DABFA Director of the manufacturing, wholesale, retail, and distribution industries at RBT CPAs.





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WAGE AND HOUR CHECKLIST FOR NEW YORK MANUFACTURING EMPLOYERS



age and hour issues continue to challenge most employers, especially those in the manufacturing industry. The manufacturing industry tends to be more process- and systems-oriented and generally employ many hourly workers who are not exempt from overtime pay under the Fair Labor Standards Act (FLSA) or the New York Labor Law (NYLL).

Manufacturers must ensure they are legally compliant. Indeed, non-compliance can trigger audits, investigations, and litigation — all of which can be disruptive, time-consuming, and costly for manufacturers. The U.S. Department of Labor (USDOL), which is charged with investigating alleged violations under the FLSA, and the New York Department of Labor (NYSDOL), which administers the NYLL, assess hundreds of millions of dollars each year in penalties to employers.

The following is a short (but by no means exhaustive) checklist of common pay issues in the manufacturing industry.

The law requires employers to compensate non-exempt employees for all time worked, as well as pay the minimum wage and overtime compensation. Whether pre-shift (donning) and post-shift (doffing) activities are included as compensable time is not always clear. Activities including putting on or taking off protective gear, work clothes, or equipment could be compensable time depending on the unique facts of the situation. Generally, to be compensable, such activities must be found to be integral and indispensable to the "principal activity" of the employer's work under the FLSA and the Portal-to-Portal Act of 1947.

Courts differ on whether time spent donning and doffing is compensable because these issues often implicate mixed questions of law and fact. Moreover, collective bargaining agreements can affect whether time spent changing clothes and washing is compensable for the purposes of determining hours worked for minimum wage and overtime calculations under the law. Employers should carefully review their policies to ensure the compensability of pre-shift or post-shift activities being performed by non-exempt employees.

ROUNDING TIME

Accurately keeping up with time worked by non-exempt employees is critical to compliance. Employees forgetting to clock-in and clock-out timely is a persistent issue, as well. While the FLSA and NYLL allow employers to round employees' clock-in and clock-out times rather than pay by the minute, it is generally unnecessary (and not recommended)

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with today's sophisticated time clocking systems. If employers choose to round time, they must ensure that any rounding policy is neutral on its face and neutral in practice. In other words, the policy must round both in the favor of the employer and the employee at roughly an equal weight. For employers engaging in rounding, audits are crucial as even a facially neutral rounding

policy that, in practice, has disproportionately benefited the employer and cumulatively underpays the employees can be found to violate the FLSA and NYLL.

MEAL BREAKS

Under the FLSA and NYLL, employers must compensate for short rest breaks that last 20 minutes or less. However, employers do not have to compensate employees for a bona fide meal break, which ordinarily lasts at least 30 minutes. Importantly, an employee must be completely relieved from work duties during this uncompensated time and cannot be interrupted by work (even for a short time). Indeed, some courts have held that, where a meal break has been interrupted by work, the entire meal break (not just the time when work was performed) becomes compensable.

Section 162 of the NYLL goes further to specify when breaks must be given and for how long they must last. These requirements are based on the length and timing of the employee's shift, and can be summarized as follows:

Shift Length/Times	Length of Break	Timing of Break
6 or more hours that extends over the "noonday meal period" (i.e., 11am to 2pm)	60 minutes for "factory workers"; 30 minutes for other workers	During the "noonday meal period" (i.e., between 11am and 2pm)
Beginning before 11am and continuing past 7pm	Additional break of 20 minutes	Between 5pm and 7pm
6 or more hours between 1pm and 6am	"60 minutes for factory workers"; 30 minutes for other workers	Midway between the beginning and end of the shift

Per the NYLL, a factory includes "mill, workshop, or other manufacturing establishment and includes all buildings, sheds, structures or other places used for or in connection with these

establishments." An employee will be considered a "factory worker" if their primary duties involve the maintenance and/or operation of a factory; administrative employees generally do not meet this definition.

Guidance from the NYSDOL states that, for factory workers, employers may lawfully offer "a shorter meal period of not less than 30 minutes as a matter of course . . . so long as there is no indication of hardship to employees." Hardship may be found if it would be difficult for an employee to take a full meal break in 30 minutes because of donning and doffing requirements, the length of time to get from the manufacturing floor to the lunch room, or other issue that infringes on an employee's break time.

To ensure compliance under these rules, employers should have policies and practices in place so that employees

can take uninterrupted meal breaks. Employers should also have a well-communicated reporting system in place for employees to record any interrupted meal break to ensure the employee is compensated for the meal break or, when possible, a new meal break is scheduled.

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Left to right; Michael J. Quinn President & CEO, Rich Kolosky, SVP Commercial Lending **Rhinebeck Bank,** Steven Effron President & CEO, Richard B. O'Keefe, Director of Finance & Administration, **EFCO Products**

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MINIMUM WAGE

Although the minimum wage under the FLSA has not changed in several years, New York's minimum wage increased again this year with more scheduled increases to come. For manufacturers, minimum wage will depend on where the employee works as follows:

Location	2023	2024	2025	2026
NYC/Westchester/Long Island	\$15	\$16	\$16.50	\$17
Rest of NY State	\$14.20	\$15	\$15.50	\$16

Failure to pay minimum wage could lead to back pay, liquidated damages, and other penalties.

REGULAR RATE

A common and incorrect assumption many employers make is that overtime pay under the FLSA and NYLL is calculated at one-and-a-half times a non-exempt employee's hourly rate when they work more than 40 hours in a workweek. In fact, the law states overtime is calculated based on the non-exempt employee's "regular rate" of pay. The law requires that all payments to employees for hours worked, services rendered, or performance be included in the "regular rate" unless the payment is specifically excluded in the law. Thus, any non-discretionary bonuses, shift differential pay, and other incentive payments such as commissions should be included in the regular rate of pay calculation for purposes of calculating overtime under the FLSA and NYLL.

This is relatively easy when a bonus is paid during a week where the non-exempt employees work more than 40 hours, but it can become complicated when the additional pay is paid on a yearly, monthly or quarterly basis. In this scenario, the payment must be averaged out over that longer time period to determine the regular rate such that overtime can be properly calculated. Thus, employers should review their payment processes on the front end to ensure compliance before any small errors or omissions multiply out of control.

NEW YORK STATE SICK LEAVE LAW COMPLIANCE

Although not necessarily a wage and hour issue, it is important for New York employers to confirm they are providing sick time to all employees in accordance with the New York State Sick Leave Law (NYSLL) implemented in 2020. Prior to this law, New York employers had complete discretion regarding whether to offer sick time, to whom to offer it, how much sick time to offer, what such time could be used for, etc.

Now, the law specifies, among other things: all employees be permitted to start accruing time immediately upon hire; the minimum accrual rate (i.e., 1 hour for every 30 hours worked); the number of hours employees must be able to accrue and use (i.e., up to 40 hours for employers with less than 100 employees, 56 hours for employers with 100 or more employees); the reasons for which use must be allowed (e.g., the employee's sickness, a family illness, to seek help for domestic abuse issues); minimum increment for use (i.e., 4 hours); unused time must be carried over into the following year; and rules regarding when and what type of documentation may be required from the employee.

Failure to comply with these NYSLL requirements may lead to damages and monetary penalties.

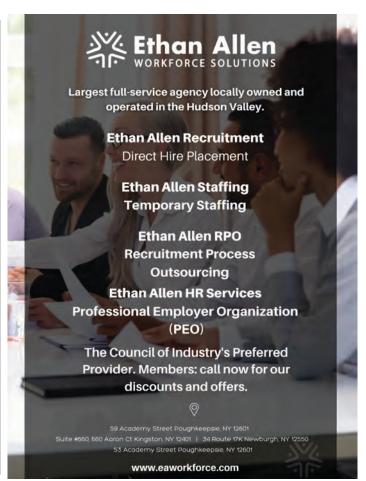
Robert J. Guidotti Jackson Lewis Principal, White Plains Office.



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Joshua Adams Jackson Lewis Principal, Charlotte Office.







MEMBERDIRECTORY





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ADVANCE TESTING COMPANY

3348 Route 208, Campbell Hall, NY 10916 www.advancetesting.com PHONE: (845) 496-1600

Advance Testing is a consulting construction materials testing laboratory that has been providing outstanding service to its clients since 1984. Advance Testing Company provides both field inspection and laboratory analysis of all construction materials for commercial, private, and public organizations.

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279 S William Street, Newburgh, NY 12550 www.allrecyclingny.com PHONE: (845) 562-7530

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Allendale Machinery Systems is a full service machine tool distributor occupying modern office and showroom facilities in Allendale, NJ and Bohemia, NY, with a technical center in Troy, NY.

AMERICAN PETROLEUM

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American Petroleum Equipment & Construction Company, Inc. (APECCO) is a full service environmental and construction firm specializing in petroleum tank system installations and removals.

APECCO is among the largest environmental maintenance and construction companies in the NY/NJ/CT Tri-State Area, and is a recognized industry leader renowned for experience, expedience and - above all - exemplary long-term customer safety and environmental security.

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AMETEK is a global leader in electronic instruments and electromechanical devices.

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250 Route 303 North, Congers, NY 10920 www.aptar.com

PHONE: (845) 639-3700

Aptar is a leading global supplier of a broad range of innovative dispensing, sealing, and active packaging solutions for the beauty, personal care, home care, prescription drug, consumer health care, injectables, and food and beverage markets.

ARNOFF GLOBAL LOGISTICS

1282 Dutchess Turnpike, Poughkeepsie, NY 12603 www.arnoff.com

PHONE: (845) 471-1504

Arnoff Global Logistics is your full service relocation expert. Regardless of what your business needs moved, Arnoff can assist you in getting it to where it needs to be, whether that is across your shop floor, across the country or across the Atlantic. Arnoff has experience in projects of all shapes and sizes. Our industrial rigging division regularly provides our customer's with turn-key plant relocation including all disassembly, rigging, packaging, crating, transportation, and installation. Or, if you just need one machine moved, we can provide a small cost effective crew of technicians to do the job right the first time.



BALCHEM CORPORATION

52 Sunrise Park Road, New Hampton, NY 10958 www.balchem.com PHONE: (845) 326-5600

Balchem Corporation offers microencapsulated ingredients to the food industry for applications in meat processing, dough leavening, flavor enhancement and shelf-life improvement; and nutritional supplements for use in human and animal health; and provides specialty packaging of chemical gases used primarily in the sterilization market segment and supplied to the health care industry.

BANTAM TOOLS

135 N. Water Street, Peekskill, NY 10566 www.bantamtools.com

Bantam Tools, we make desktop CNC machines with professional reliability and precision at an affordable price. Our machines are easy to set up, work as expected right out of the box, and like our namesake, the Bantam rooster, punch above their weight class, allowing you to stay ahead of schedule and under budget no matter what project you're working on. All of our desktop CNC machines are clean, safe, and easy to use, making them a great choice for any classroom or lab.

BELFOR PROPERTY RESTORATION

75 Virginia Road, North White Plains, NY 10603 www.belfor.com

PHONE: (914) 798-1440

BELFOR Property Restoration is the North American leader in integrated disaster recovery and property restoration services. With more than 100 full-service offices in the U.S., we are geographically positioned to respond to almost any disaster – large or small - coast to coast. A proven track record of superior response and unmatched resources has made BELFOR the contractor of choice for damages caused by fire, water, wind or other catastrophes.

BELL FLAVORS & FRAGRANCES, INC.

12 Sprague Avenue, Middletown, NY 10940 www.bellff.com

PHONE: (845) 342-1233

Worldwide company specializing in development, formulation, and manufacturing of customized flavors, fragrances, and botanical extracts.

BROOKLYN BOTTLING CORP.

643 South Road, Milton, NY 12547 www.bevindustry.com

PHONE: (845) 795-2171

Brooklyn Bottling is a family owned beverage manufacturer and distributor that has been operating in the historic Hudson Valley since 1946. We specialize in co-packing products such as juice cocktails, teas, seltzers, sports drinks, energy drinks, maltas, flavored waters, and soft drinks. Our products serve the growing demand of healthy drinks and specialty focused beverages.

For nearly three decades, Brooklyn Bottling Group has had the franchise rights to produce the leading beverage/soda brands from South/Central America and the Caribbean. Brooklyn Bottling has expanded its operations to become a leading manufacturer of juice and specialty beverages on the east coast.



CAMBRIDGE SECURITY SEALS

One Cambridge Plaza, Pomona, NY 10970 www.CambridgeSeals.com PHONE: (845) 520-4111

Cambridge Security Seals is a privately-held enterprise headquartered in Pomona, New York. CSS is one of the leading manufacturer and suppliers of tamper evident, tamper resistant, and high-security loss prevention seals and allied products to meet the growing needs of customers across a wide range of industries.

CARIBBEAN FOOD DELIGHTS INC.

117 NY-303, Tappan, NY 10983

https://cfdnyinc.com PHONE: (845) 398-3000

Caribbean Food Delights (CFD) is the leading Caribbean frozen food manufacturer of Jamaican Style Patties: beef, chicken, and vegetable. The company which began its operations in 1978 on Dyre Avenue in the Bronx, from humble beginnings by Vincent and Jeanette HoSang, is now located at its 103,000 square foot manufacturing facility in Tappan, New York.

A privately owned and operated company, CFD remains rooted in its motto, "Quality is Our Priority." This obsession with quality and safety has earned the company the coveted Safe Quality Food Institute's highest achievement award - SQF Level 3. The company boasts numerous other distinctions, awards, and accolades from prestigious local and international organizations.

CARLISLE CONSTRUCTION MATERIALS

9 Hudson Crossing Drive, Montgomery, NY 12549 www.carlisleconstructionmaterials.com

PHONE: (845) 457-6400

Carlisle Construction Materials, a manufacturer of the Hunter Panels brand, is the country's leading maker of Polyiso sustainable building solutions for every roofing application and Hunter Xci - for vertical continuous wall insulation applications.

CATSMO, LLC

25 Myers Road, Wallkill, NY 12589

www.catsmo.com

PHONE: (845) 895-1695

Artisan Smokehouse.

CENTRAL HUDSON GAS & ELECTRIC CORP.

284 South Avenue, Poughkeepsie, NY 12601

www.centralhudson.com PHONE: (845) 486-5468

Electric and natural gas service in the Mid-Hudson Valley.

CHEMPRENE, INC.

483 Fishkill Avenue, Beacon, NY 12508

www.chemprene.com PHONE: (845) 831-2800

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ColorPage is the area's largest and most complete marketing and publishing services provider. Offering affordable, result driven digital graphic communication solutions. All digital design, printing, direct mail and web services are done in-house Markets served include Business, Manufacturing, Wholesale and Retail Distributors, Education, Financial and Health and Publishing. As a technology based company new multi-channel media strategies are offered to assure maximum campaign results. Free consultation and cross-media information packet is available.

COMAIRCO EQUIPMENT

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www.comairco.com PHONE: (716) 656-0211

Since 1972, Comairco's knowledgeable staff have been supporting customers across Canada and in the United States by helping them clearly identify their compressed air needs and by selling or renting the most cost-efficient compressors and compressed air equipment available in the industry.

COMMUNITY MANUFACTURING SOLUTIONS

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Provide Industrial Fabric Cutting And Commercial Sewing.

COMMUNITY METALWORKS, LLC.

24 Riverview Drive, Marlboro, NY 12542 PHONE: (845) 236-9888

Community Metalworks (CMw), is a startup 15,000 sq. ft. manufacturer in the Marlboro, NY, area. We have tube bending, forming, and tumbling capabilities. CMw is associated with the Bruderhof in Ulster County and the Mid-Hudson Valley. Community Metalworks aims to become among the best employers in the Hudson Valley.

CREPINI

700 South Drive, Suite 105, Hopewell Junction, NY 12533 www.crepini.com

PHONE: (844) 273-7464

Crepini is a family business that creates zero/low carb products that consumers rave about because they taste great and are good for any occasion.

CRAFTECH INDUSTRIES, INC.

8 Dock Street, PO Box 636 Hudson, NY 12534 www.craftechind.com PHONE: (518) 828-5001

Craftech's diverse manufacturing capabilities include injection molding, mold building, screw machining and CNC machining; all performed in-house at our Hudson, NY plant. Standard and custom parts are manufactured from low volume to high volume runs. Reliable, traceable and confidential manufacturing has contributed to Craftech's reputation as an industry leader.



DITRON INC.

PO Box 375, 81 South Greenhaven Road, Stormville, NY 12582 www.ditroninc.com

PHONE: (845) 227-9300

Since 1963 Ditron has been where Design Engineers come when they need micro-miniature precision stampings; where component design assistance is provided with an emphasis on both material and producibility. Our in-house die design and construction capabilities allow us to easily integrate a customers needs. As an ISO 9001:2008 Certified company we are committed to total satisfaction.

DORSEY METROLOGY INTERNATIONAL

53 Oakley Street, Poughkeepsie, NY 12601 www.dorseymetrology.com PHONE: (845) 454-3111

Manufacturer of precision measuring instruments for industrial/machine-shop use.

DUNMORE INTERNATIONAL

3633 Danbury Road, Brewster, NY 12564 www.dunmore.com PHONE: (845) 280-7240

DUNMORE International is a global supplier of engineered coated and laminated films and foils. DUNMORE offers film conversion services such as coating, metallizing and laminating along with contract film manufacturing. DUNMORE produces coated film, metallized film and laminating film substrates for the photovoltaic, graphic arts, packaging, aerospace, insulation, surfacing and fashion industries. DUNMORE is privately held, ISO 9001:2008 and OSHA VPP Star certified. For complete information on DUNMORE's products, services and industries served.



EASTERN ALLOYS, INC.

PO Box 317, Henry Henning Drive, Maybrook, NY 12543 www.eazall.com

PHONE: (845) 427-2151

Producer of zinc and aluminum alloys for the die casting and galvanizing industries. Developer and supplier of EZAC, a proprietary high strength, high fluidity, creep-resistant zinc die casting alloy.

EFCO PRODUCTS, INC.

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Global producer of ingredients including bakery mixes, fruit toppings and fillings, jellies, jams, icings, syrups and sauces for the bakery and food service industry, national chain restaurants and industrial food processors. Family owned and operated since 1903.

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15 Big Pond Road, Huguenot, NY 12746 www.elementis.com

PHONE: (929) 529-7951

Manufacturer of anti-perspirant chemicals, drinking water treatment chemicals and wastewater treatment chemicals. FDA and NSF certified.

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Distribution and custom machining of a complete line of ferrite and other magnetic products.

eMAGIN CORPORATION

700 South Drive, Suite #201, Hopewell Junction, NY 12533 www.emagin.com

PHONE: (845) 838-7900

eMagin serves a variety of industries and has developed OLED microdisplay technology that enables next generation Consumer VR HMDs, First Responder applications including search and rescue and firefighting, Commercial products including medical imaging devices and Military products supporting ground soldiers, 3D simulation and training, aviation, etc... eMagin was founded in 1996 and has been a leader in advancing OLED microdisplay technology. Our latest breakthroughs include; 2K x 2K microdisplay first demonstrated in 2015 and Direct Patterned Displays with brightness exceeding 4000 nits.

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Design and manufacture liquid filtration equipment and disposable filter media for the pharmaceutical, chemical, cosmetics, beverage, mining, municipal and industrial wastewater and food industries.



FAIR-RITE PRODUCTS CORP.

PO Box 288,1 Commercial Row, Wallkill, NY 12589

www.fair-rite.com PHONE: (845) 895-2055

Fair-Rite Products Corp., ISO 9001/IATF 16949 registered company, is a leading full-line ferrite component manufacturer offering a wide variety of components for EMI suppression and power applications utilizing innovative processes and materials.

FALA TECHNOLOGIES, INC.

430 Old Neighborhood Road, Kingston, NY 12401 www.falatech.com

PHONE: (845) 336-4000

FALA Technologies Inc. (FALA), located in Kingston, NY, provides contract manufacturing and supply chain manufacturing/ engineering services to build custom equipment and advanced electro/mechanical products for the semiconductor, transportation, military, advanced energy and industrial products sectors.

Founded in 1946, FALA is owned and managed by engineers. Our customers are scientists, researchers, product and equipment designers and advanced product manufacturers. FALA's business focus is to assist customers with product and equipment research and development, prototyping and early stage manufacturing. Our services include precision machining, electro/ mechanical assembly and system's qualification of components, subassemblies, products and complete machine builds.

FALA also manufactures a proprietary product line of cleanroom grade bearings and related products to improve the operations and life-cycle of robotic production equipment for the semiconductor industry. Such work includes providing complete robotic rebuild services for many of the major semiconductor chip manufacturing companies located worldwide.

FIT AND FUN PLAYSCAPES

220 Overocker Road, Bldg 2, Poughkeepsie, NY 12603 www.fitandfunplayscapes.com PHONE: (800) 681-0684

We are a manufacturer and online retailer based in Poughkeepsie, specializing in unique activities and graphics that promote physical activity, mindfulness, and social-emotional learning. We primarily develop these for children and work directly with schools, hospitals, parks, and health agencies. We were founded in 2011, are 100% women-owned (Not certified yet) and about 90% of our products are made in the USA.

FRYER MACHINE SYSTEMS, INC.

70 Jon Barrett Road, Robin Hill Industrial Park Patterson, NY 12563 www.fryermachine.com PHONE: (845) 878-2500

Manufacturer of CNC machining centers and lathes designed for tool room, prototype, and mold-making uses.



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Gap Inc. is a leading global retailer with a collection of brands including Old Navy, Gap, Banana Republic and Athleta. We're committed to serving the needs of our customers while delivering long-term value to our shareholders.

GIULIANTE MACHINE TOOL INC.

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www.gmtgear.com

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Giuliante Machine Tool, Inc. has an unparalleled commitment to customers dating back to the foundation of the company in 1978. From a simple beginning as a two-man operation in a small 3,500 square foot shop in Port Chester, NY to the expansion to 10,000 square feet from 1995 to 2010, to the present 27,000 square foot organization it is today, GMT has earned a reputation for superior quality, vision, and customer satisfaction.

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Available in over 100 grades, GRAPHALLOY bearings may be the solution to your toughest bearing, bushing, thrust washer, cam follower, or pillow block bearing design problem. Some GRAPHALLOY bearings have operated for up to 20 years without maintenance. We have many standard designs but most of our products are custom designed to the unique requirements of your specific application.

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www.gtilite.com

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Harmon Printing is a Poughkeepsie based printing and mailing company servicing the Hudson Valley since 1937. We specialize in client growth with high quality printed products and / or customized mailing services. We can handle any job large or small, they are all important to us. Our professional service is 2nd to none, please call us or send us a quick e-mail to ask a question or get a quote.

Our clients include businesses large and small, not for profit organizations, associations, professionals, schools and universities, and hospitals.

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1 Corporate Drive, Kingston, NY 12401 www.howmet.com PHONE: (845) 331-7300 Manufacturer of installation tooling.

HUDSON VALLEY PLASTICS

85 Charles Colman Blvd, Pawling, NY 12564 www.hudsonvalleyplastics.com PHONE: (845) 855-1201

Designers, manufacturers and assemblers of plastic injection molded parts and components.

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28 Bill Horton Way, Wappingers Falls, NY 12590 www.legalshred.com

PHONE: (845) 705-7279

HV Shred, Inc. dba Legal Shred is a AAA NAID Certified locally owned data destruction service. We destroy confidential paperwork, hard drives, usb drives, laptops, cell phones and the spectrum of electronics. Clients get a certificate of destruction to demonstrate their due diligence to comply with the alphabet soup of federal regulations protecting consumers' confidential information. Helping to protect the environment, Legal Shred recycles shredded paperwork.

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2455 South Road MD P907, Poughkeepsie, NY 12601 www.ibm.com/us/en/ PHONE: (845) 433-6326

IBM, headquartered in Armonk NY, is a leading cloud platform and cognitive solutions company. IBM provides integrated solutions that leverage information technology and knowledge of business processes. Products and services include Cloud, Mobile, Cognitive, Security, Research, Watson, Analytics, Consulting, Commerce, Experience Design, Internet of Things, Technology support, Industry solutions, Systems services, Resiliency services, Financing, and IT infrastructure.



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130 Salt Point Turnpike, Poughkeepsie, NY 12603 www.jamesltaylor.com PHONE: (845) 452-3780

James L. Taylor Mfg. has been manufacturing woodworking equipment in Poughkeepsie, NY since 1911. With three distinct product lines we aim to help our customers improve their processes with American made, well built, efficient and safe machinery. JLT Clamps is our custom shop clamping line that focuses on door, drawer, edge, and face gluing applications. Taylor Clamps which includes Clamp Carriers, Door Pros, conveyorized applicators, and return conveyors. Cameron Automation is the third product line and is focused on computer controlled optimizing equipment. Ripping, cross cutting, panel sizing, color matching of panels, and automated nesting of flooring bundles has been our focus for the past 25 years.

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www.jbtc.com

PHONE: (845) 340-9727

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2777 U.S. 20 Cazenovia, NY 13035-8444

www.knowlescapacitors.com PHONE: (315) 655-8710

Knowles is a market leader and global provider of advanced micro-acoustic microphones and speakers, audio processing, and precision device solutions, serving the consumer electronics, communications, medtech, defense, electric vehicle, and industrial markets. We use our leading position in SiSonic™ MEMS microphones, balanced armature speakers, and strong capabilities in audio processing technologies to optimize audio systems and improve the user experience in mobile, ear, IoT, computing, and medtech applications. We are also a leader in high-performance capacitors and RF solutions for a diverse set of markets.

KONICA MINOLTA SUPPLIES MANUFACTURING USA, INC.

51 Hatfield Lane, Goshen, NY 10924 www.konicaminolta.com/us-en/index.html

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Konica Minolta's facility in Orange County, New York is a Foreign Trade Zone, which serves as assembly operations for toner cartridges for copy machines.

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LAMOTHERMIC

391 Route 312, Brewster, NY 10509 www.lamothermic.com

PHONE: (845) 278-6118

Lamothermic Precision Investment Casting Foundry was born from our founders' passion for engineering complex investment castings. Founded in 1975 by brothers Amos and Gideon Noach, we have grown from that 2-person operation into a corporation employing over 75 people in a 50,000 square foot manufacturing facility. We remain owner-operated, and our commitment to quality and customer service is part of everything we do.

Quality + Best-In-Class Engineering = Satisfied Customers: Lamothermic is your premier supplier of precision investment castings - quality first, every time. Our commitment to superior quality combined with our best in class engineering and advanced automation means that our customers get the best castings for their needs.

LODOLCE MACHINE COMPANY, INC.

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www.LoDolce.com PHONE: (845) 246-7017

Contract manufacturing, precision machining and fabrication,

welding, wet and powder coating.



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Full service commercial printer.

MAGNETIC ANALYSIS CORP.

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Magnetic Analysis Corporation has been advancing the science and technology behind non-destructive testing for over 90 years. On the world stage, MAC® is recognized as a major resource for eddy current, electromagnetic, flux leakage and ultrasonic inspection systems for testing metals.

Dedicated to a production-oriented approach, MAC offers both individual instruments and complete systems that incorporate material handling and controls, as well as nondestructive testing.

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www.marcomanf.com PHONE: (845) 485-1571

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10 Hudson Crossing Drive, Montgomery, NY 12549

www.mckesson.com PHONE: (845) 769-4127

McKesson is the oldest and largest healthcare company in the nation. We deliver one-third of all medications used daily in North America with operations in more than 16 countries. We work with health care organizations of all types to strengthen the health of their business, helping them control costs, develop efficiencies and improve quality.

MECHANICAL RUBBER PRODUCTS

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Custom Plastics and Rubber elastomer manufacturer which uses die cut, extrusion, lathe cut, mixing, molding, sheeting and stripping processes along with the fabrication of Engineered Flexible Connectors that includes Expansion Joints, Pump Connectors and Flue Ducts.

METALLIZED CARBON CORPORATION

19 South Water Street, Ossining, NY 10562 www.metcar.com

PHONE: (914) 941-3738

Metallized Carbon Corporation has been supplying industrial customers worldwide with Engineered Carbon/Graphite Solutions for Severe Service Lubrication since 1945. Corporate headquarters are in Ossining, NY with manufacturing facilities located in Ossining, Mexico and Singapore. Metallized Carbon manufacturers the Metcar family of Solid, Self-Lubricating, Oil-Free materials. With over 65 years of Application Engineering experience, the Company offers the field expertise and the hard data necessary to provide the Solid Choice for Lubrication to a wide variety of industries. Metallized Carbon is ISO 9001/2008 registered including product design and material development. We operate under the International Traffic in Arms Regulations (ITAR).

METTRIX TECHNOLOGY CORPORATION

8 Nancy Court, Wappingers Falls, NY 12590

www.mettrix.com PHONE: (845) 221-4800

Mettrix Technology Corporation provides electronic printed circuit board (PCB) assembly as a service to its customers. The range of services we provide include surface mounted (SMT, SMD) and through-hole (TH) component assembly, wire harness construction, and box build. No quantity is too small. We routinely assemble prototypes as well production quantities as large as 10,000 per year. We also provide electronic design, reverse engineering, and design maintenance services. The company has been in business in Dutchess County since 1998. Let us be "Your Team at Mettrix."

MICROMOLD PRODUCTS, INC.

7 Odell Plaza #133, Yonkers NY 10701 www.micromold.com

PHONE: (914) 969-2850

Micromold manufactures a broad line of corrosion resistant plastic products for the process industries. We specialize in standard and custom products made from PTFE, Kynar, polypropylene, PEEK, nylon, Kel-F, and UHMW.

Our products include: a complete line of dip pipes and spargers, available in either solid PTFE, or PTFE lined and jacketed steel; complex reactor internals; PTFE valves; PTFE and Kynar strainers; and our FLUOR-O-FLO™ PTFE NPT threaded piping system.

Micromold also makes a full line of CNC machined parts for process industry OEMs including ball valve seats, butterfly valve seats, pump seals and instrumentation components as well as a complete range of plastic screw machine parts for process industry OEMs and distributors.

MID-HUDSON WORKS

188 Washington Street Poughkeepsie, NY 12601 www.midhudsonworks.org

PHONE: (845) 471-3820

For the last 70 years, Mid-Hudson Works has provided cost effective solutions to your mechanical and electrical assembly, light manufacturing and fabrication, order processing, packaging & fulfillment, food co-packing, labeling, mailings and more. Contact us to find out how we help your business grow while we meet our mission.

MILLROCK TECHNOLOGY, INC.

39 Kieffer Lane, Kingston, NY 12401

www.millrocktech.com PHONE: (845) 339-5700

Millrock Technology, a world recognized leader in freeze dryers and related systems, manufactures equipment for the pharmaceutical and biotech industries. Freeze Dryers, used in the laboratory and production range from 2 to 200 square feet of shelf area that meet the rigid criteria of the FDA's 21CFR part 11 and GMP. Experience since 1957.

MONROE STAIR PRODUCTS

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PHONE: (845) 783-4245

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www.motionlabs.com PHONE: (800) 227-6784

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www.mpi-systems.com PHONE: (845) 471-7630

MPI was founded over 48 years ago and continues to be a top tier employer in the Hudson Valley. MPI is the worldwide leader of Wax-Room & Ceramic Core Injection, Assembly, & Automation Equipment. MPI's Technology Center has state-of-art equipment for Customer Process Validation, Pattern Production Services, Automation Demonstrations and Training. MPI's Refurb Center performs complete Wax Injection machine refurbishments and upgrades. MPI's Field Service is a global operation with diagnosis, repairs, PM's and spare parts. Regional Sales Offices in the USA, UK, Europe, China, Japan, Korea, India, Latin America and Russia. MPI's focus is on increasing the quality and lowering the cost of producing Wax Patterns and assemblies to achieve Higher Casting Yields.



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4 Stagedoor Road, Fishkill, NY 12524

www.nerak-systems.com PHONE: (914) 763-8259

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Walden Savings Bank, established in 1872, is the 11th oldest federally chartered mutual savings bank headquartered in Montgomery, New York. With a total of 11 full-service branches serving the Hudson Valley region, and a lending office located in Beacon, New York, the Bank's progressive style of community banking provides products that cater to both the individual and the growing mid-size business. In addition, Walden Investment Services, located at Walden Savings Bank, offers personalized advice for financial planning.

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www.wellsfargo.com PHONE: (800) 869-3557

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COMMERCIAI REAL ESTATE

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95 South Middletown Road Nanuet, NY 10954 www.randrealty.com

PHONE: (800) 431-3010

Howard Hanna Rand Realty has more than 1,100 residential real estate sales associates serving New York, New Jersey, and Connecticut suburbs of New York City. Its 30 offices serve Bergen County, Passaic County, Hudson County, Morris County, Essex County and Union County in New Jersey, Westchester County, Rockland County, Orange County, Sullivan County, Dutchess County, Ulster County, and the Bronx in New York, and Fairfield County in Connecticut. Rand also owns and operates Rand Commercial, a commercial real estate brokerage, and Hudson United Home Services, which provides residential mortgage lending, title services, and personal and commercial insurance.

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Crown Castle delivers a high-performance network that is diverse and flexible. We specialize in delivering fiber-based, customized, high capacity communication services (from 10 Mbps to 100 Gbps) that ensure optimal application and business performance. From wavelengths, video transport, and dark fiber to ethernet and internet access, the company delivers bandwidth and access where it is needed throughout the U.S. with connectivity to critical landing points domestically and internationally. Crown Castle values proposition and identifies new opportunities, provides competitive proposals, provides a high level of customer service, and develops strong relationships with decision makers and influencers.

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7 Skyline Drive Suite 350, Hawthorne, NY 10532 www.360accel.com PHONE: (888) 360-0101

build stronger and more valuable businesses. Our 360Express System combines a diverse team of professionals encompassing decades of comprehensive, multi-disciplinary experiences with a robust, proprietary assessment framework and proven process modules. From large-scale organizations to innovative entrepreneurial ventures across a wide spectrum of industries 360accels advisors have held various C-suite executive positions. We understand what it takes to start, build, scale, and continue growing profitable businesses while navigating fiercely competitive and continuously evolving marketplaces. Since 2007, 360accel has helped clients unlock business insights; improve market clarity; convert ideas to actionable opportunities; align stakeholders on data-driven decisions that refresh strategic trajectory and market positioning; and ultimately, facilitate the actionable steps required to achieve lasting results. 360 accel engagements are flexible and costeffective. You set the parameters and timelines, then we hit the ground running.

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25 Monroe Street, Suite 201, Albany, NY 12210 www.fuzehub.com PHONE: (518) 768-7030

FuzeHub provides New York State manufacturers and technology companies with guided access to our extensive network of industry experts, programs, and assets to solve productivity, commercialization, research and development issues, and other challenges to growth. FuzeHubs programs champion the New York State manufacturing and technology community and provide targeted resources to accelerate manufacturing competitiveness and technology commercialization.

IGNITION LIFE SOLUTIONS, INC CI Partner for Consulting Services*

2350 N. Forest Road #12A, Buffalo, NY 14228 www.ignitionlifesolutions.com PHONE: (800) 404-3078

Ignition Life Solutions, Inc. is a global enterprise strategic planning and development consulting, auditing and training firm. Our areas of expertise span innovation & growth, operational excellence, and quality management systems. Focus industries include automotive, aerospace/defense, medical devices, and healthcare.

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60 HV MEG of strategic importance. We help our clients articulate the guiding vision that shapes their community or organization. We craft innovative and effective approaches that help our clients achieve that vision. We design and implement programs and organizational structures that align with the vision and strategy. And we build capacity so our clients can embark on a continuous process of program and organizational improvement. We are passionate advocates of effective mission-driven organizations and communities, and we believe that even in a fractured political climate it is possible to build consensus around smart, equitable and sustainable economic growth.

Community Economic Development | Project Funding and Financing | Coalition- and Systems-Building | Impact Analysis

EDUCATION AND TRAINING

ULSTER BOCES ADULT CAREER EDUCATION CENTER

PO Box 602, Route 9W, Port Ewen, NY 12466 www.ulsterboces.org

PHONE: (845) 331-5050

Adult Education programs provide life-long opportunities for our community neighbors. As a partner of the Ulster County Workforce Development Board, Ulster BOCES offers career classes to help adults expand their employment opportunities.

WORKFORCE DEVELOPMENT INSTITUTE

Mid Hudson Region

15 Stone Castle Road, Rock Tavern, NY 12575

www.wdiny.org

PHONE: (845) 567-1213

Lower Hudson Region

297 Knollwood Road, Suite #206, White Plains, NY 10607

PHONE: (914) 231-9670

The Workforce Development Institute (WDI) is a statewide 501(c)3 non-profit that improves the lives of working men and women across New York State by providing targeted programs in workforce, economic, and community development. A focus on helping businesses become and remain successful is a key component of this programming. Healthy businesses provide employment opportunities for New York's citizens and, in turn, are dependent on a well-trained workforce and community support. The WDI works to ensure that investments in all three areas – workforce, economic and community development – are integrated and reflect the perspectives of working men and women. WDI's agenda is shaped by the needs of specific regions, businesses, or unions.

EMPLOYMENT/STAFFING

ETHAN ALLEN WORKFORCE SOLUTIONS CI Partner for Employment Services*

59 Academy Street, Poughkeepsie, 12601

www.eaworkforce.com PHONE: (845) 471-9700

Since 1969, Ethan Allen Workforce Solutions has been matching the energetic and hard-working jobseekers of the Hudson Valley with the career opportunities provided by our diverse community of employers.

Ethan Allen Workforce Solutions group of companies offers a full

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Locally owned and operated, and a certified Woman Owned Business Enterprise, we are the largest full service agency in the area. We've partnered with firms in this region for over 40 years. So we've got local focus and insight. We also bring awardwinning national and international scope to bear, thanks to our connections with personnel and recruitment associations whose reach extends around the globe.

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We build real relationships with both our clients and our candidates to ensure every match is a win-win – even when employees are temporary. We know that people need to be well matched in order to do their best work, and whether we are placing a seasonal hourly employee or a professional, we are always focused on fit.

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PHONE: (917) 342-6522

Our tagline, HR that makes a difference®, defines what we do. It emphasizes that human resources is a key driver of growth and contributes to a business's bottom line. This is what sets Insperity apart.

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PHONE: (845) 567-3978

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LaBella Associates is a 1,300-person, full-service Design Professional Corporation founded in 1978. We design for Infrastructure, Buildings & Facilities, Waste, Recycling & Environmental, and Energy. From 34 offices across the Eastern US and an office in Madrid, LaBella provides architectural and interior design, building engineering, building codes services, civil engineering, construction services and support, environmental consulting, landscape architecture, land development engineering, planning, power systems engineering, program and project management, safety services, survey and mapping, transportation engineering, and waste and recycling services.

WALDEN ENVIRONMENTAL ENGINEERING, PLLC

iPark 84 Campus, 200 North Drive, Suite 108 Hopewell Junction, NY 12533 www.walden-associates.com

PHONE: (845) 253-8025

Walden provides innovative engineering and environmental consulting and design services in a variety of areas like Brownfield development, utility valuations, management of above/below ground storage tanks, air quality and emissions permitting, solid waste management, grant writing, and water quality. Our impressive roster of repeat clients, many of which have come to Walden through referrals, includes private and public organizations. Our headquarters is in Oyster Bay, LI with additional offices in the Capital District and Fort Wayne, IN.

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117 Grand Street Goshen, NY 10924

www.hviaonline.com PHONE: (845) 294-6127

We are experienced with 25 years of implementing investment portfolios for institutional clients.

Markets are more complex today than ever before and Hudson Valley Investment Advisors core strength is assisting fiduciaries in navigating the complexities. Our institutional clients include Pension Plans, Profit Sharing Plans, Foundations, Endowments, Corporations and Charitable Organizations. We focus on research, strategy and execution as the foundation of a sound investment portfolio. Strategy is the process of combining our strong research capabilities with our disciplined Portfolio Management Process.

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2134 State Route 208 Montgomery, NY 12549 www.rhinebeckassetmanagement.com

PHONE: (845) 567-3930

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The Affinity Group, LLC is a premier wealth management firm located in Albany, NY since 2002. We utilize a team approach to wealth management, working with professionals in the financial services, accounting, and legal areas where necessary.

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IAW

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One North Lexington Avenue, Ste. 1206, White Plains, NY 10601 www.BPSlaw.com

PHONE: (914) 949-2700

Bleakley Platt represents businesses and individuals in a wide range of legal matters including labor and employment, construction law, corporate, shareholder and partnership disputes, zoning and land use, environmental issues, real estate law, including leasing and financing, corporate finance, bond finance, secured lending, tax certiorari, product liability, intellectual property, commercial litigation and immigration matters. Our clients include large and small businesses in many different industries, including financial services, construction, manufacturing, insurance, energy, health care and life sciences, among others. Bleakley Platt provides counseling for litigation avoidance as well as pre-litigation strategic advice. We achieve cost-efficient results for clients and deliver focused, coordinated client representation, with exceptional personal attention to each matter.

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22 Corporate Woods, Suite 501, Albany, NY 12211 www.bsk.com

PHONE: (518) 533-3000

Bond's Albany office has 24 lawyers engaged in key areas of practice that serve a variety of clients including: individuals, small and large businesses, banking, construction, energy, health care, insurance, manufacturing, municipalities, pharmaceuticals, transportation, utilities and many more sectors. Our lawyers are a vital part of a 250 lawyer firm with offices across New York State, as well as Florida and Kansas, allowing us to provide the depth and experience required to meet clients' legal needs.

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641 Broadway, Newburgh, NY 12550

www.cmrlaw.com

PHONE: (845) 565-1100

Catania, Mahon & Rider, PLLC is one of the Hudson Valley's leading general practice law firms. Our diverse practice groups, each staffed with experienced and knowledgeable professionals, allow us to provide excellent and comprehensive representation. We strive to offer our clients innovative, strategic and cost-efficient solutions to their individual needs. This is all accomplished upon a foundation of integrity, the type of forthright yet respectful counsel that engenders trust and helps build strong and long-lasting relationships.

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540 Broadway, 7th Floor, Albany, NY 12207 www.couchwhite.com PHONE: (518) 426-4600

Couch White, LLP is a full service law firm dedicated to the cost-effective resolution of legal problems encountered by, and the consummation of transactions contemplated by, an extensive business and professional clientele. The firm, with its main office in Albany, New York and satellite offices in Saratoga Springs, New York City and Hartford, Connecticut, has experienced attorneys and a full complement of paralegal assistants and support staff dedicated to meeting its clients' needs.

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PHONE: (845) 562-4280

Construction Contractors Association is dedicated to the advancement of the construction industry in the Hudson Valley region. CCA seeks to promote the orderly development of the Hudson Valley, encourage a business friendly environment and help provide our members with the skills, resources and support to be competitive.

DUTCHESS COUNTY WORKFORCE INVESTMENT BOARD

3 Neptune Road, Poughkeepsie, NY 12601

www.dcwib.org/

PHONE: (845) 463-0247

Our mission is to foster a skilled and competitive workforce by promoting an understanding of workforce trends and issues in a dynamic economy and to facilitate lifelong learning for individuals and businesses.

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30 South Pearl Street Albany, NY 12207

www.empirecenter.org PHONE: (518) 434-3100

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HUDSON VALLEY ECONOMIC DEVELOPMENT CORPORATION (HVEDC)

10 Matthews Street, Goshen, NY 10924

www.hvedc.com

PHONE: (845) 220-2244

The Hudson Valley Economic Development Corporation (HVEDC) is a comprehensive resource for businesses relocating to (or expanding within) the Hudson Valley, which includes Westchester, Rockland, Putnam, Orange, Ulster, Dutchess, and Sullivan counties.

HVEDC works closely with a mosaic of business, academic, government, and community leaders to collaboratively navigate and shape a brighter economic future for the Hudson Valley by driving business innovation, attraction, and expansion throughout the region.

PATTERN FOR PROGRESS

PO Box 425, Newburgh, NY 12551 www.pattern-for-progress.org PHONE: (845) 565-4900

Hudson Valley Pattern for Progress is a not-for-profit policy, planning, advocacy, and research organization whose mission is to promote regional, balanced, and sustainable solutions that enhance the growth and vitality of the Hudson Valley.

ORANGE COUNTY CHAMBER OF COMMERCE

40 Matthews Street, Suite 104, Goshen, NY 10924

www.orangeny.com PHONE: (845) 457-9700

With nearly 1,700 members, the Orange County Chamber is a leading advocate for business in the Hudson Valley region.

ORANGE COUNTY PARTNERSHIP

40 Matthews Street, Suite 108, Goshen, NY 10924 https://www.ocpartnership.org/ PHONE: (845) 294-2323

Center of Economic Development Orange County New York The Orange County Partnership is your resource for development opportunities in Orange County. Free Business Development Resources From site selection assistance, financing options, and employment training to marketing, the Orange County Partnership is your premier (no-cost) resource for economic development support. The Orange County Partnership's team of economic development professionals works with commercial real estate brokers, developers, site selection firms and regional and statewide economic development agencies to find the most advantageous and cost-effective locations for corporate attractions and expansions.

ULSTER COUNTY REGIONAL CHAMBER OF COMMERCE

214 Fair Street, Kingston, NY 12401

www.ulsterchamber.org PHONE: (845) 338-5100

The Ulster County Regional Chamber of Commerce provides services and advocacy on behalf of its membership and the community to advance the region's economic health and vitality. We are the Voice and Choice of business in the Ulster County region to stimulate and nurture sustainable economic growth.

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Working together to succeed

The Mid-Hudson Region is more than a place where we do business. It is home to our customers, clients, employees and community partners. The strength of our firm allows us to leverage our resources, expertise and data insights to help bolster communities and create a more inclusive economy for all.

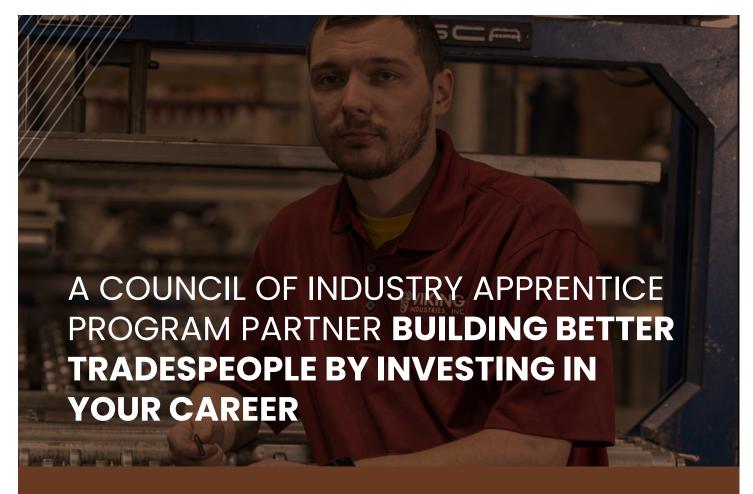
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