LIBusiness

FINANCE FACTORS AFFECTING YOUR DEBT



BY LIZA N. BURBY

Special to Newsday

Kaycee Martimucci's grandmother handed her the reins at Nassau Chromium Plating in Mineola five years ago, making her president and a fourth-generation owner at one of the few woman-owned manufacturers in Long Island's aerospace and defense industry.

But while Martimucci, 40, is bucking one trend, she's facing

WOMEN'S HISTORY MONTH

another industry-wide challenge: as skilled manual labor retires, there aren't enough workers drawn to the industry to replace them. More than 35% of the Island's manufacturing workers were 55 or older in 2024, compared with 30.2% in 2014

and 20.4% in 2004, according to the U.S. Census Bureau.

As companies try to build a workforce to meet current and future needs for the U.S. defense industrial base sector, maritime manufacturing and electronic systems, there's a shortage of machinists — the people making the parts — and engineers — the people designing them.

"For every 20 positions I need filled, there's only one qualified applicant," said Martimucci,

Women in aerospace and defense work to solve the labor shortage and diversify Island's manufacturing sector

whose company provides finishing services like powder-coating. "In some cases, like aerospace painting — which is a very specialized skill — companies are so desperate for skilled labor that we're sharing employees. Someone will work here in the morning and then go to a competitor for the second part

of the day. And they can get between \$45 and \$60 an hour because of their skills."

Industry leaders recognize that one way to address the labor shortage is by encouraging women's participation through education, firsthand trade pro-

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Overcoming old perceptions

WOMEN from A35

grams, and targeting young women in high school and college while emphasizing the range of available careers. They are doing so by networking, mentoring and collaborating to support growth and raise awareness about the prevalence of manufacturing on Long Island and the skilled labor it needs to be sustained.

John Spiezio, chairman of Aerospace & Defense Diversification Alliance in Peacetime Transition whose trade organization, known as ADDAPT, is based at the Cradle of Aviation Museum in Garden City, said that "opening up those opportunities to 50% more of the workforce population is just smart macroeconomics.'

"And since women can be trained to do things equally as well as men, if not better, there's no micro reason to discourage them from doing any of this work," Spiezio said.

Fortifying and redefining In 2023, New York's aerospace and defense industry generated a total economic output of approximately \$15 billion, according to the latest numbers from the Aerospace Industries Association. Long Island has a rich history in aviation and defense manufacturing, dating to World War II. The firms are particularly present in areas such as Hauppauge and Bethpage, which is home to a major facility operated by global defense and tech company Northrop Grumman.

But with over 350 small- to mid-sized firms in the region, only about 20 are womenowned, noted Jamie Moore, president of Ignite Long Island, a trade association supporting local manufacturers.

Among the women-led enterprises, a handful have been passed down from family founders to the current owners. These include Martimucci; Teresa Ferraro, 62, who runs East/West Industries Ronkonkoma; and Anne Shybunko-Moore, 53, owner and CEO of GSE Dynamics in Hauppauge. The rest of the women-owned businesses are start-ups, such as Latour Aerospace, launched by Jessica Latour, 42, in 2009 in Locust Valley to specialize in raw mate-



Kaycee Martimucci, left, owner of Nassau Chromium Plating, and Amy Erickson, executive director of LI Manufacturing Extension Partnership, are members of Women Leaders in Defense and Aerospace.

We have to do a better job at communicating all the different career pathways that are available, and at the same time, do a better job at marketing and branding the companies that are on Long Island.

- Anne Shybunko-Moore, owner and CEO of GSE Dynamic

rial distribution.

Despite the local defense industrial base sector employing 28,000 Long Island workers, women are only 20% of the workforce, Moore said.

Moore estimated that there are about 950 to 1,000 openings for aerospace and defense manufacturing jobs on Long Island but that as much as 80% of those openings lack "local qualified talent" to choose from, "unless they are poached from other A&D companies, but that still leaves an opening.'

"For the vast majority of the jobs that are open we don't have

the people," Moore said. "We have to train them, we have to put educational pieces in place. That's why we're working on these large training centers not only to do entry-level training, but to do upskilling and career path training so we can help these companies grow their talent internally."

While encouraging more women to the field could help address the labor shortage, industry leaders acknowledge a need to overcome outdated perceptions that manufacturing is dirty, low-paying work with limited advancement opportunities

- a notion that no longer fits the modern landscape.

"We have to do a better job at communicating all the different career pathways that are available, and at the same time, do a better job at marketing and branding the companies that are on Long Island," said Shybunko-

Her company, which manufactures structural components for aircraft and submarines, employs 87 people, 21 of whom are women. These women work in management and engineering, including a director of supply chain management who is also a

Shybunko-Moore emphasized that the role of women should extend beyond office roles to hands-on production where "they're the ones machining it, drilling it, assembling it, weld-

"I definitely do not see women entering into that arena and they should, especially composites technicians, which takes such fine motor skills and really precise effort," she said.

Moore, with Ignite Long Island, noted that starting salaries for welders average around \$79,000, with earnings potentially reaching up to \$200,000 with overtime. "And machinists - especially those who can program - that's a six-figure job," he added.

The shift to more tech-based manufacturing also means that the work now requires advanced technical training to use methods like 3D printing and computer programs that control mechanical tools, explained Joshua Roff, curator of the Cradle of Aviation Museum.

"It's not like it used to be with a lathe or a drill gun to make parts," Roff said. "The workforce needs to be more skilled to handle the new type of manufac-

Martimucci stressed the importance of early education. She called for high school and college programs to better inform students about the variety of careers available, noting the critical need for skills in reading blueprints, quoting accurately, and mastering math, finance, planning, chemistry, manufacturing engineering and metallurgy.

Ferraro, who took over her parents' business in 1983, leads a company of 88 employees, including 20 women in administrative and engineering roles.

"If you're good at math, in a manufacturing environment that might make you a really good inspector, because you need to understand the numbers and the dimensions," she said. "Or if you're interested in planning and procurement, your skills can be filtered into so many different areas."

Latour added that women's organizational and communication skills are vital to meet the high stakes of the industry.

When a company has an assembly line and an aircraft going down that line, and there's material that's not being delivered, they're losing millions of dollars," she said.

A seat 'at the table'

Amy Erickson, one of the only female engineers working on microcircuits for satellites in the early 1990s, said she was accustomed to meetings with manufacturing firms in Long Island's male-dominated aerospace and defense industry where she was the only woman in the room. Yet she was aware of women-owned manufacturers; she had done business with Nassau Chromium Plating when it was owned by Shirley

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Students participate in the Sacred Heart Emerging Leaders Program at East/West Industries, which is led by Teresa Ferraro.

WHAT NEWSDAY FOUND

■ Women in aerospace and defense manufacturing on Long Island are working to bring more women into the field to strengthen diversity and address a growing labor shortage.

■ Efforts include mentoring, education programs, and networking initiatives, but industry leaders say outdated perceptions and limited exposure to manufacturing careers remain major barriers.

■ Changing the face of the workforce will require sustained outreach, cultural shifts, and clearer pathways to skilled, hands-on roles traditionally dominated by men.

Waring.

At a 2023 meeting for AD-DAPT — a trade organization founded in 1991 to advance aerospace and defense manufacturing for companies throughout New York — Erickson noted that over 30 years later, women still weren't regularly in the room.

"It was very frustrating to me that women still weren't at the table so they can strengthen their businesses and bring more women into their companies," she said.

Now sitting on ADDAPT's board, Erickson has taken steps to change that dynamic.

Encouraged by ADDAPT chairman Spiezio, Erickson launched the Women Leaders in Defense and Aerospace subcommittee in 2023 to raise industry awareness and foster

connections among women CEOs, CFOs, general managers and department managers. The initiative also seeks to create pathways for leadership and encourage more women to consider entering the field.

Erickson, who also serves as executive director of the Long Island Manufacturing Extension Partnership based at Stony Brook University, explained that her role is to help small and mid-sized manufacturers grow revenue, retain or create jobs, and optimize processes.

At ADDAPT, she explained, "I focus on a smaller set of manufacturers that supply the aerospace and defense industrial sector, executing the ADDAPT directives. In essence, all these efforts are to help the LI manufacturing community grow and

flourish."

To address talent shortages, several Long Island programs serve as pipelines for future workers. Training initiatives include offerings by the Board of Cooperative Educational Services of Nassau County, the Institute for Workforce Advancement in Melville, and Advanced Manufacturing Training at Suffolk Community College.

Additionally, the Strategic Partnership for Industrial Resurgence at Stony Brook's Office for Research & Innovation has, over 31 years, completed 4,000 projects with 610 companies by connecting them with undergraduate and graduate students from departments such as applied math, materials science, and engineering.

"Generally, we fill a gap where they may have a project that is not big enough to hire a person with a specific background, but we can provide a student to help them reach that goal," said director Lisa Chichura.

Business owners like Ferraro and Shybunko-Moore are also driving workforce development.

Ferraro offers internships and collaborates with women's organizations, such as the Girl Scouts, and local schools to expose students to industry opportunities. Shybunko-Moore is active at Hofstra University's Fred DeMatteis School of Engineering and Applied Science, helping to attract young women to the field.

Now the incoming chair of the Cradle of Aviation, she also participates in STEM initiatives targeted at females.

"I think what we're really trying to drive home is the future of aerospace and defense, and how are we attracting the right people. Women are an important part of that mixture," said Shybunko-Moore, adding that she looks forward to a progressive industry where aerospace and defense remain integral to Long Island.

At a March ADDAPT meeting, where only eight of 35 attendees were women, Linette Lee, president of Jamco Aerospace — a women-owned machine shop in Deer Park — reflected on her challenges as a female Asian American in the industry.

"It's good that we have this women's group now so we can talk," she said. "We probably should have joined voices years ago; we needed walls to be smashed."

Tesla may benefit from auto tariffs

Bloomberg News

Donald Trump's planned tariffs on auto imports will hurt carmakers around the world and push up prices for U.S. consumers. Among the many losers, one winner stands out: Elon Musk's Tesla Inc.

The electric vehicle maker has large factories in California and Texas that churn out all the cars it sells in the United States, insulating it to a greater degree from Trump's new levies on auto imports and key components. Major rivals from South Korea's Hyundai Motor Co. to Germany's Volkswagen AG and America's own General Motors Co. meanwhile will soon face sharply higher costs.

"There are very few winners," Sam Fiorani, vice president of global vehicle forecasting for AutoForecast Solutions, said in a telephone interview. "Consumers will be losers because they will have reduced choice and higher prices."

Tesla is the "least exposed" to the new duties due to its domestic manufacturing operations, CFRA Research analyst Garrett Nelson wrote in an analysis this week. Tesla itself has been boasting this week about its U.S. credentials, saying in a post on X that its models "are the most American-made cars."

Ford Motor Co. could also face a less-severe impact than some rivals, with about 80% of the cars it sells in the United States being built domestically.

Starting Thursday, the 25% tariffs will apply to all imported passenger vehicles and light trucks, as well as key parts like engines, transmissions and electrical components, on top of any du-

ties already in effect. The levies will only apply to the non-U.S. share of vehicles and parts imported under a free-trade agreement with Canada and Mexico.

That stands to soften the blow for vehicles whose supply lines zig-zag across the continent. Tariffs on parts from Canada and Mexico that comply with the trade deal also won't take effect until the United States sets up a process to collect those levies.

The U.S. neighbors could use that window to try to stave off full implementation, even if it's a long shot.

The move is nonetheless a broadside against the continent's free-trade agreement that Trump renegotiated during his first term in office that has given rise to a closely integrated supply chain spanning North America. Canadian Prime Minister Mark Carney called the tariffs a "direct attack."

Foreign brands heavily reliant on imported vehicles will face the most pressure. South Korea's Hyundai risks being among the hardest hit. Although the carmaker and its affiliate Kia have plants in Alabama and Georgia — and announced a \$21 billion U.S. expansion plan this week — it imported more than a million vehicles to the United States last year, accounting for more than half of its sales in the country, according to figures from Global Data.

Hyundai "remains committed to the long-term growth of the U.S. automotive industry through localized production and innovation," the company said in a statement, noting it employs 570,000 people in the United States.



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