

Engineering



We are seasoned systems integrators, with projects that range from simple motor and drive retrofits to comprehensive production line upgrades, utilizing the latest in PLC, HMI, and motion control technologies. While it's impossible to list all our projects, they have included custom circuit boards for OEM machinery, PLC and drive systems for blow-molding, as well as plastics and rubber extrusion lines.

Our expertise also extends to winder systems, including points winding, cross-spooling, and traverse winding for wire, cable, or plastic strapping. We have improved food and beverage production line controls, implemented case packing and palletizing robots, managed materials handling robot cells, upgraded drives and controls on extrusion lines and blow molding machines, among many other projects.

Engineering & Industrial Automation Solutions

Elevating Industrial Performance Through Smart Automation

At AFI Systems, we deliver comprehensive automation and control solutions designed to help manufacturers reduce downtime, enhance efficiency, and modernize legacy equipment. Our service operations help to engineer and maintain reliable systems. With decades of experience in industrial electronics, automation, and motion control, our engineering team is equipped to tackle the most complex production challenges across the Americas and Europe.



Transform your system from obsolete to state-of-the-art and extend the lifespan of your systems. Don't just upgrade — enhance!

Custom Engineering & Control Systems

We are solution architects

From basic component replacements to the design and deployment of entire automation platforms, our services include:

- Custom circuit board design for OEMs and legacy system support
- Complete PLC/HMI system development using Allen-Bradley, Siemens, Beckhoff, Omron, B&R, and more
- Motion control systems for high-speed applications, including servo motors, encoders, and positioning logic
- Data acquisition and SCADA integration for real-time visibility and control
- VFD and soft starter upgrades, including tuning, parameterization, and network integration

Whether you're running a single packaging line or a multi-cell robotic operation, our scalable solutions grow with your production needs.

Automation That Works for You

AFI designs automation with the operator and maintenance teams in mind. Our goal is to simplify complex operations, reduce points of failure, and enable your team to manage systems with confidence.

Applications we've delivered:

- **Winder and rewinder systems** – tension-controlled, closed-loop drives for cable, strapping, or paper
- **Blow molding and extrusion lines** – integrated drive/PLC packages for consistent throughput
- **Palletizing and packaging automation** – collaborative and traditional robot arms integrated with vision systems
- **Food and beverage upgrades** – recipe control, batch production automation, CIP system logic
- **Safety upgrades** – e-stop circuits, interlocks, safety relays, and full Category 3/4 compliance solutions
- **Full SCADA integration**

End-to-End Project Delivery

AFI handles every phase of your project — no outsourcing, no guesswork.

1. Initial audit and scope development
2. Detailed electrical and mechanical design
3. Fabrication and programming (in-house)
4. Installation and commissioning
5. Documentation, drawings, and training
6. Ongoing remote or onsite support

All panel builds are certified to UL 508A standards and include full labeling, BOMs, and schematics for future maintenance ease.

Our engineers are ready to Modernize Your Production!

Whether you're dealing with obsolete equipment, scaling production, or battling labor shortages, we can help you design an automation strategy that meets your performance goals — on time and within budget.

Field Service & Support

Our engineering team is also available for emergency service, troubleshooting, and legacy system diagnosis. Whether your equipment has failed or you need help diagnosing intermittent faults, our techs have the tools and experience to get you back online — fast.

We also offer:

- Remote VPN diagnostics and remote access setup
- PLC and HMI program recovery or migration
- Production downtime analysis
- Preventive maintenance

Who We Serve

We partner with manufacturers, OEMs, integrators, and facility operators across industries such as:

- Automotive
- Plastics and extrusion
- Food and beverage
- Textiles and converting
- Chemical and batch processing
- Logistics and distribution
- Utilities
- Paper and Printing

