MC Automation LLC

CAPABILITY STATEMENT • INDUSTRIAL ELECTRICAL & AUTOMATION

Cincinnati, Ohio • Serving Ohio, Kentucky and Indiana • (513) 223-2450

Company Profile & Core Value

MC Automation LLC is a Cincinnati-based industrial electrical contracting and automation engineering firm that takes machinery and production lines from design to startup. We specialize in control panels, PLC programming, variable frequency drives, and rapid machine troubleshooting for industrial manufacturing plants.

Key Regional Differentiators

- **Siemens Specialists:** Local expert support for European machinery on Siemens TIA Portal, S7-1200, and S7-1500 systems.
- **Design to Startup:** Complete in-house schematics, panel building, programming, and live floor commissioning.
- **20+ Years Track Record:** Industrial engineering in major US and international production plants.

SCOPE Core Engineering Capabilities (Seven Disciplines)

1. Control Panel Design & Build

- Complete custom panels designed, built, and commissioned in-house
- Schematics, panel layouts, component selection, wiring, and FAT testing
- PLC, HMI, VFD cabinets and Motor Control Centers (MCC)

2. PLC, HMI & SCADA Programming

- Siemens S7-1200 / S7-1500 (TIA Portal), Allen-Bradley, Omron, Delta
- Touchscreen operator screens (HMI), SCADA supervision, remote monitoring
- Recipes, alarms, fault history, counters, runtime tracking, data logging

3. VFD, Servo & Motion Control

- Variable Frequency Drives (VFD) setup, tuning, and parameter matching
- AC/DC servo drives: position, speed, torque control, homing routines
- Encoders, resolver feedback systems, and multi-axis machinery

4. Machine Troubleshooting & Emergency Repair

- Fast emergency diagnosis and repair to get lines running again
- Pumps, fans, compressors, conveyors, and overhead cranes
- CNC electrical controls and FANUC robot systems, sensors & interlocks

5. Machine Retrofits & Modernization

- Upgrading older machines with current controls, drives, and safety systems
- Replacing obsolete relay logic with modern Siemens / Rockwell PLCs
- Industrial machinery installation, testing, and commissioning

6. Industrial Power Distribution & Maintenance

- 120V, 208V, 230V, 380V, 480V systems and up to 34.5 kV experience
- Transformers, power factor correction, capacitor banks, harmonic analysis
- Preventive maintenance: inspections, terminal torquing, PLC backups

PROVEN Systems Experience & Technical Recognition

Career Systems Experience

- **Alstom:** Rail & transportation power
- **Ülker:** Food & confectionery lines
- **Plaş Plastik:** Plastics extrusion
- **Tempa Pano:** Control panels & MCCs
- **Smithfield Foods:** Industrial maintenance

Recognition & Training

- **Maintenance Champion Award:** Farmamak (Yıldız Holding), highest performance across 10 evaluation criteria
- **FANUC:** Industrial robot systems
- **Siemens:** S7-1500T kinematics

Industries Served

- Food & Beverage Processing
- Plastics & Packaging
- Manufacturing & Machine Shops
- Rail & Heavy Industry
- Commercial & Logistics Hubs

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