

# OUR SERVICES

## ELECTRICAL DESIGN

MANUFACTURING  
PEACE OF MIND<sup>SM</sup>

# MANUFACTURING PEACE OF MIND

Trusted System Integrators Since 1998  
Offering Expertise That Delivers  
Efficiency, Safety, and Long-Term Reliability

### Electrical Design Core Capabilities

- **Experience with design 480VAC Control Panels** for motor and pump control design, PLC control panels.
- **Employees Arc Flash NFPA70E Trained** - We design to minimize arc flash hazards.
- **Design For Process Control Systems** - including flowmeters, control valves, pumps, level sensors, pressure transmitters.
- **Design for Machine Vision System:** Cognex, Keyence, Datalogic and more
- **Design for Robot Control Systems:** Preferred Integrator for Kawasaki and experience with Fanuc, Motoman Yaskawa, UR- Collaborative and more
- **Turnkey Solutions** - We are your single source supplier that builds our own designs

### Technical Standards and Compliance

- Employees **Arc Flash NFPA 70E trained** – designs minimize arc flash hazards
- **UL508A Certified Panel Shop** – design and build to UL508A & NEC specifications
- Safety Designs – CAT B to CAT 4 compliance
- CAD Expertise – AutoCAD Electrical, EPLAN, and other design tools.
- Power & Control Standards:
  - **Power:** 480VAC, 230VAC
  - **Control Voltage:** 120VAC, 24 VDC
  - **Analog Signals:** 4–20mA, 0–10V

### Why Choose Axis?

#### Expertise That Goes Deep

We offer reliable, cost-effective designs tailored to your requirements. Certified Expertise – UL508A, NFPA70E, NEC compliance

#### Proven Peace of Mind Integration

Safety, Compliance, and Proven Integration – from PLCs and HMIs to machine vision and robotics, every system is engineered for reliable long-term performance

### Electrical System Expertise

#### Technical Knowledge

- **Sensors & Actuators** – Selecting and integrating inputs/outputs for performance.
- **Controllers (PLCs)** – Central to automation and system control.
- **Feedback Loops** – Monitoring and adjusting for reliable operation.
- **Electrical Components** – Proficiency with relays, breakers, wiring, and control devices.

#### Engineering Principles

- **System Design** – End-to-end control system development.
- **Safety & Compliance** – Meeting IEC and industry standards.
- **Problem-Solving** – Analytical skills to resolve complex challenges.

### Industries Served

- Food & Beverage
- Automotive & Tier 1 Suppliers
- Specialty Equipment & OEM
- Printing & Packaging
- Manufacturing
- Surface Mining
- Chemical
- Plastics
- And Many More



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**AXIS**  
ENGINEERING GROUP, LLC  
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