

Edwin Navarro

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SUMMARY

Automation Technician with **8 years** of hands on experience building, wiring, commissioning, troubleshooting, maintaining, and repairing **automated manufacturing equipment** in high volume and regulated production. Skilled with control panels, high and low voltage circuits, industrial wiring, power distribution, PLCs, HMIs, VFDs, servo systems, robotics, vision systems, sensors, **I/O devices**, and pneumatic equipment. Reads electrical schematics, pneumatic diagrams, engineering drawings, and 2D/3D CAD documentation for installations and modifications. Supports mechanical assembly, debugging, FAT, SAT, field installation, start up, production service, and continuous improvement. Uses **electrical test equipment** and root cause analysis to restore dependable operation, document corrective actions, and reduce repeat failures. Works closely with engineers, manufacturing teams, machine builders, customers, and external partners while providing practical training for maintenance and production personnel.

EXPERIENCE

Senior Automation Technician

April 2023 - Present

Prairie Motion Automation

Elgin, Illinois

Lead hands on assembly, integration, commissioning, **field installation**, and service for automated assembly equipment. Coordinate with engineers, manufacturing teams, customers, and external partners through acceptance and production support. Provide technical training, review recurring failures, and maintain accurate change documentation.

- Built automated **assembly** equipment with panel wiring, device termination, **pneumatic** checkout, and I/O verification.
- Diagnosed PLC controlled systems using test instruments, schematics, HMI diagnostics, and field observations.
- Completed **FAT** and SAT checks, documented defects, and verified corrections before customer acceptance.
- Performed field installations and start ups using **electrical** drawings and **2D/3D CAD** documentation.
- Trained maintenance and production personnel on fault recovery, preventive maintenance, and safe troubleshooting.
- Reviewed repeat failures, identified root causes, and updated technical documentation after corrective changes.

Automation Technician

February 2020 - March 2023

Midwest Controls Integration

Rockford, Illinois

Supported control panel fabrication, equipment integration, factory acceptance, commissioning, and field service for high volume production systems. Connected electrical, pneumatic, motion, vision, and robotic devices while partnering with engineers and customers on release quality and technical corrections.

- Wired **control panels** from incoming power through PLC I/O, drives, motors, **sensors**, and interfaces.
- Integrated PLCs, HMIs, VFDs, **servo systems**, vision, **robotics**, and pneumatics into production equipment.
- Interpreted schematics, **pneumatic diagrams**, and CAD drawings for modifications, replacements, and installations.
- Traced wiring faults, failed components, communication issues, and incorrect I/O states using test equipment.
- Supported FAT with engineers and customers, recording open items and completing electrical corrections before release.
- Performed commissioning and **field service** while documenting changes, findings, and equipment behavior.

Electrical Controls Technician

June 2018 - January 2020

Great Lakes Manufacturing Services

Joliet, Illinois

Maintained automated production equipment across **electrical controls**, motors, drives, sensors, pneumatics, and PLC sequences. Supported approved upgrades, safe repairs, production recovery, and reliability reviews while communicating findings with engineering and operations teams.

- Maintained production equipment involving panels, motors, drives, sensors, pneumatics, and PLC sequences.
- Traced electrical and controls faults using schematics, machine symptoms, and **electrical test equipment**.
- Repaired **industrial wiring** and automation devices through safety and change control practices.
- Installed sensors, **VFDs**, HMI components, and **I/O** wiring for approved equipment upgrades.
- Recorded recurring failure patterns that helped engineering prioritize reliability improvements.
- Coached production personnel on equipment recovery, safe escalation, and service **communication**.

Junior Electrical Technician

June 2016 - May 2018

Fox Valley Packaging Systems

Naperville, Illinois

Supported supervised panel assembly, machine wiring, pneumatic installation, debugging, start up checks, and field corrections for automated packaging equipment. Built foundational experience reading drawings, verifying circuits, collecting test data, and supporting senior technicians during customer installations.

- Assembled **electrical** panels and machine wiring for automated packaging equipment under senior technician review.
- Terminated power, control, sensor, and I/O wiring, then verified continuity before functional testing.
- Installed **pneumatic** valves, sensors, actuators, and tubing for integrated machine sequences.

- Read **electrical schematics** and **assembly** drawings to locate components and complete approved modifications.
- Collected meter readings, checked device states, and documented faults during equipment **debugging**.
- Supported supervised installations, **start up** checks, and field corrections at customer sites.

PROJECTS

High Volume Assembly Cell Commissioning 📅 2024

Delivered a distinct assembly cell commissioning effort involving panel checkout, pneumatic verification, I/O testing, FAT support, start up, and field documentation.

Production Controls Reliability Upgrade 📅 2022

Supported a controls reliability upgrade by tracing recurring electrical faults, replacing selected devices, recording field changes, and sharing findings with engineering.

LEADERSHIP & AWARDS

- Recognized by engineering partners for clear FAT defect documentation and dependable acceptance support.
- Selected by maintenance teams as a trusted resource for PLC diagnostics, fault recovery, and practical equipment coaching.

EDUCATION

Associate of Applied Science in Mechatronics Technology

2016

College of DuPage GPA: 3.5

Glen Ellyn, Illinois

Coursework: Industrial Automation, Electrical Controls, PLC Systems, Pneumatic Systems, Electrical Schematics

CERTIFICATIONS

- Industrial Electrical Apprenticeship Certificate 📅 2018
- OSHA 10 Hour General Industry 📅 2026

TECHNICAL SKILLS

- **PLC Platforms:** PLC controllers, I/O modules, control logic
- **Operator Interfaces:** HMIs, fault diagnostics, operator interfaces
- **Motor Drives:** VFDs, motors, drive systems
- **Motion Control:** Servo systems, motion devices, positioning
- **Robotics Systems:** Industrial robots, robotic cells, robot integration
- **Machine Vision:** Vision systems, cameras, inspection devices
- **Pneumatic Systems:** Pneumatic valves, actuators, tubing
- **Electrical Systems:** Control panels, high voltage, low voltage
- **Test Equipment:** Multimeters, electrical testers, continuity testing
- **Engineering Drawings:** Electrical schematics, pneumatic diagrams, CAD drawings
- **Acceptance Testing:** FAT, SAT, functional testing
- **Service Delivery:** Field installation, commissioning, start up

SKILLS

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|-------------------------|------------------|-------------------------|-----------------------|
| • Industrial Automation | • VFD Systems | • Pneumatics | • FAT and SAT |
| • Electrical Controls | • Servo Systems | • Control Panels | • Commissioning |
| • PLC Programming | • Robotics | • Electrical Schematics | • Root Cause Analysis |
| • HMI Systems | • Vision Systems | • 2D and 3D CAD | |

PROFESSIONAL AFFILIATIONS

- Association for Manufacturing Technology participant, sharing interest in automation service, controls integration, and production reliability.
- International Society of Automation participant, following practical developments in industrial controls, instrumentation, and technician training.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST