

Emmett Bowers

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SUMMARY

Proactive and committed Electrical & Instrumentation Technician offering over two years of relevant experience in troubleshooting, repair, and maintenance of electrical systems. Proficient in the calibration of various controls and instruments while ensuring adherence to safety measures and regulations. Strong expertise with PLCs, AC drives, DC drives, and comprehensive motor control systems. Eager to contribute technical knowledge to drive continuous improvement initiatives within a dynamic engineering team. With an organized approach, fosters a collaborative work environment focused on reliability, safety, and efficiency enhancement.

EXPERIENCE

Electrical & Instrumentation Technician

June 2025 - Present

BrightStar Engineering

Chicago, IL

Oversees all electrical and instrumentation tasks within a fast-paced industrial environment. Provides crucial technical support during troubleshooting and equipment repairs to maintain operational continuity and high performance.

- Provided expert technical assistance to plant personnel for effective troubleshooting during repair cases, enhancing overall operation times.
- Set up, calibrated, and tested diverse electrical controls and instruments, thereby boosting equipment operation reliability significantly.
- Collected and interpreted operational data to discover trends that facilitated targeted improvements in reliability and functionality.
- Conducted preventative maintenance and regular instrument calibrations to minimize downtime and prolong equipment lifecycle.
- Collaborated closely with maintenance teams for process improvements while ensuring strict compliance with established safety standards.
- Maintained an organized workspace and adhered to L.O.T.O policies, reinforcing commitment to workplace safety protocols.

Electrical Technician

May 2024 - May 2025

Innovatech Solutions

Chicago, IL

Focused on electrical system installation and maintenance, actively resolving malfunctions through efficient repairs and compliance checks against industry standards.

- Installed and tested electrical systems in accordance with local and national standards, ensuring full compliance with all applicable codes.
- Assisted in diagnosing failures across hydraulic and electrical systems, documenting findings for future reference and analysis.
- Authored and compiled failure analyses reports contributing to enhanced preventive measures and operational processes.
- Monitored electrical equipment functionalities to bolster service efficiency and reduce operational downtime effectively.
- Guided junior technicians in best practices for electrical maintenance and safety protocols, fostering skill development within the team.
- Participated earnestly in root-cause analysis investigations to drive improvements in equipment performance and condition.

LEADERSHIP & AWARDS

- Certified Industrial Electrician, 2026
- OSHA 30-hour General Industry Safety

EDUCATION

Associate of Applied Science in Instrumentation

2026

Chicago Technical College GPA: 3.8

Chicago, IL

Coursework: Instrumentation principles, Electrical systems, Data analysis, Calibration techniques

CERTIFICATIONS

- Certified Industrial Electrician 📅 2026
- OSHA 30-hour General Industry Safety 📅 2026

TECHNICAL SKILLS

- **Control Systems:** PLC, HART communicators, AC drives, DC drives
- **Maintenance Tools:** Multimeter, Oscilloscope, Signal Generator
- **Analytical Software:** MATLAB, Excel, SCADA systems
- **Safety Protocols:** Lockout/Tagout, Risk Assessment, Incident Reporting
- **Documentation Standards:** SOPs, SSOPs, Failure Reporting

- **Electrical Codes:** NEC, NFPA, IEC standards
- **Calibration Techniques:** Pressure, Temperature, Flow calibration methods
- **Equipment Monitoring:** Vibration Analysis, Thermal Imaging, Remote Monitoring
- **Data Management:** Data Logging, Performance Metrics Analysis
- **Team Coordination:** Project Management tools, Team Meetings, Workshop Facilitation

SKILLS

- Electrical troubleshooting
- AC and DC Drives
- Preventative Maintenance
- Collaboration
- Instrument calibration
- Motor control systems
- Root Cause Analysis
- PLC programming
- Blueprint interpretation
- Data Analysis

PROFESSIONAL AFFILIATIONS

- Member of National Society of Professional Engineers (NSPE)
- Participant in local Energy Conservation Workshops

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST