



Edwin Navarro

PLC Electrical Engineer

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SUMMARY

Dynamic PLC Electrical Engineer with over 4 years of experience in control systems design, programming, and electrical integration for automation. Proven ability to develop customized solutions while collaborating effectively across teams. Expertise in AutoCAD Electrical and SolidWorks, complemented by strong troubleshooting skills in hardware and software. Committed to delivering results efficiently in fast-paced environments and ensuring compliance with safety standards. Looking forward to contributing innovative ideas at Innovative Automation Solutions.

EXPERIENCE

PLC Electrical Engineer

Automation Dynamics 📅 June 2022 - Present 📍 Chicago, IL

Responsibilities include designing and developing electrical control systems for automated machinery, enhancing overall operational efficiency. Lead the implementation of varying PLC programs and conduct panel assembly along with system tests.

- Designed and developed electrical control systems and panel layouts for automated machinery, enhancing operational efficiency significantly.
- Implemented PLC programs using Allen-Bradley and Siemens platforms, streamlining programming time considerably.
- Created detailed schematics and BOMs utilizing AutoCAD, adhering strictly to NEC/NESC compliance.
- Conducted hands-on wiring, panel assembly, and testing, leading to improved project delivery timelines.
- Collaborated closely with mechanical engineers and production teams for seamless system integration.
- Provided troubleshooting support during machine builds and acceptance testing phases, achieving high success rates.

Control Systems Engineer

Tech Innovations Inc. 📅 April 2020 - May 2022 📍 Oak Brook, IL

Focused on maintaining and developing PLC programs alongside HMI interfaces for various automation projects, contributing greatly to system reliability and performance indicators.

- Developed and maintained efficient PLC programs and HMI interfaces vital to multiple automation projects, improving system reliability.
- Created structured electrical schematics and diagrams ensuring clarity and compliance for manufacturing personnel.
- Engaged in extensive hands-on testing and commissioning efforts reducing downtime during installations.
- Collaborated actively with software developers, enhancing system functionalities and overall user satisfaction.
- Ensured strict adherence to UL panel design protocols, reinforcing critical safety measures.
- Led several continuous improvement initiatives that enhanced overall operational processes within the engineering team.

Junior Electrical Engineer

Innovative Solutions LLC 📅 January 2019 - March 2020 📍 Schaumburg, IL

Initially part of a dynamic team focusing on the design and development of electrical control systems aimed at diverse machinery applications, gaining invaluable experience in PLC programming.

- Assisted in designing sophisticated electrical control systems for various industrial machinery, absorbing practical knowledge around PLC frameworks.
- Supported creating electrical schematics leveraging SolidWorks Electrical, ensuring projects were executed smoothly.

STRENGTHS

👥 Collaboration

Worked cross-functionally with engineers across disciplines, greatly enhancing team project outcomes. Peers often sought insight on various technical challenges.

💡 Problem-Solving

Approached troubleshooting systematically, resulting in swift identification and resolution of issues. Colleagues appreciated this methodical mindset, eager to contribute.

🔍 Attention to Detail

Maintained high standards in designing electrical systems, ensuring precision in schematics. Many noted this diligence as pivotal for effective integration.

⚙️ Technical Expertise

Demonstrated profound understanding of PLC systems through successful program implementations. Frequently consulted for guidance on best practices and design choices.

🔄 Adaptability

Managed several projects simultaneously, adjusting priorities effectively. Adaptability proved key for improving productivity amidst tight deadlines.

SKILLS

PLC Programming

Control Systems Design

Electrical Integration

AutoCAD Electrical

SolidWorks Electrical

HMI Development Troubleshooting

NEC Compliance

Project Management

Panel Assembly System Testing

Electrical Schematics

BOM Creation

Standards Compliance

Safety Protocols

Continuous Improvement

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● PLC Electrical Engineer at Automation Dynamics (4.2 Years)

● Control Systems Engineer at Tech Innovations Inc. (2.1 Years)

● Junior Electrical Engineer at Innovative Solutions LLC (1.2 Years)

- Conducted essential troubleshooting and diagnostics on both hardware and software matters, facilitating quick resolutions.
- Collaborated with senior engineers, aiding in reaching project milestones within specified timeframes and budget plans.
- Participated actively in safety audits, underscoring compliance with industry standards diligently.
- Embraced professional growth opportunities, which significantly enhanced skills in automation technologies and engineering practices.

LEADERSHIP & AWARDS

- Certified Automation Professional (CAP) - 2021
- Excellence in Engineering Award - 2022

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois 🎓 GPA: 3.5 📅 2018 📍 Champaign, IL

Coursework: Control Systems, Electrical Circuits, Signal Processing, Automation Technologies

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2021
- Lean Six Sigma Green Belt 📅 2022

TECHNICAL SKILLS

- **Design Tools:** AutoCAD Electrical, SolidWorks Electrical, EPLAN
- **PLC Platforms:** Allen-Bradley, Siemens, Omron
- **Programming Languages:** Ladder Logic, Structured Text, FBD
- **HMI Tools:** Wonderware, Ignition, Siemens WinCC
- **Testing Tools:** Multimeters, Oscilloscopes, Clamp Meters
- **Compliance Standards:** IEC, NEMA, UL
- **Communication Protocols:** Ethernet/IP, Modbus, Profibus
- **Manufacturing Processes:** Lean Manufacturing, Kaizen, Just-In-Time
- **Troubleshooting Techniques:** Fault Tree Analysis, Root Cause Analysis, RCA
- **Safety Practices:** Lockout/Tagout, Risk Assessment, Work Zone Safety

PROFESSIONAL AFFILIATIONS

- Institute of Electrical and Electronics Engineers (IEEE), Member since 2019
- Society of Automated Engineers, Active Participant

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST