Edwin Navarro

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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
June 2022 - Present

Automation Dynamics
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
April 2020 - May 2022

Tech Innovations Inc.
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
January 2019 - March 2020

Innovative Solutions LLC
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.
- 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
2018

University of Illinois GPA: 3.5
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

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

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST