Phoenix Mcguire

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SUMMARY

Energetic Intelligent Controls & Automation Engineer with over 4 years of experience leading teams and developing automation solutions. Expertise includes implementing logic improvements that enhance quality and productivity. Strong capability in conducting root cause analysis to mitigate operational losses, as well as constructing preventive maintenance strategies. Passionate about driving system integrations and innovations within industrial environments while collaborating across diverse teams. Committed to delivering measurable enhancements that align departmental goals with broader organizational missions, eager for new opportunities to contribute effectively and make a lasting impact.

EXPERIENCE

PC&IS Engineer
January 2024 - Present

Automated Systems Corp. *Raleigh, NC*

Oversaw development and integration efforts for the PC&IS team, sustaining high levels of collaboration and innovation while coaching engineers on best practices. Inspired a culture of continuous improvement within the department through effective leadership and strategic guidance.

- Established the PC&IS team's technical capabilities, enhancing overall project results across multiple initiatives.
- Directed integration improvements resulting in increased production efficiency by 15%, optimizing various control systems.
- Conducted insightful root cause analyses addressing operational losses, integrating design feedback that improved reliability.
- Formulated and implemented preventive maintenance strategies contributing to a significant 20% reduction in downtime.
- Managed annual budget allocations aligning expenditures with long-term departmental objectives and investments.
- Benchmarking activities allowed for seamless incorporation of innovative technologies adaptable to current industry standards.

Controls Engineer
June 2021 - December 2023

Innovative Engineering Ltd. *Greensboro, NC*

Collaborated extensively with cross-functional teams to innovate reliable, efficient engineering solutions tailored to pressing business challenges. Played an instrumental role in fostering a culture emphasizing shared learning and skills enhancement across teams.

- Engineered automation processes through Rockwell Control Logix platforms, amplifying system responsiveness and functionality.
- Diligently optimized industrial network architectures to bolster data transmission efficacy for enhanced communication.
- Instituted comprehensive training modules aimed at upskilling team members on PLC programming and foundational automation principles.
- Pursued continuous improvement projects that visibly elevated product quality metrics and streamlined operations.
- Effectively provided troubleshooting expertise ensuring uninterrupted functions of complex automation equipment.
- Engaged stakeholders in treatment of challenges, facilitating collaborative problem-solving approaches for robust outcomes.

Junior Controls Engineer
August 2020 - May 2021

Tech Solutions Group *Greensboro, NC*

Supported seasoned engineers during key phases of control systems design and validation, establishing firm foundations for future endeavors within varying manufacturing processes. Played a pivotal support role in harmonizing expectations throughout project life cycles.

- Contributed to the conceptualization and execution of state-of-the-art control systems aligned with industry standards.
- Assisted in rigorous testing and validation processes, safeguarding compliance and optimal performance metrics.
- Authored detailed technical specifications along with user guidelines facilitating smooth user engagement with automated systems.
- Participated actively in team meetings promoting knowledge sharing and transparent communications regarding progress and insights.
- Researched emerging automation technologies evaluating their potential applicability in forthcoming engineering milestones.
- Prioritized professional growth through workshops enhancing expertise in networking and robotics fields.

LEADERSHIP & AWARDS

- Certified Automation Professional (CAP) - 2025
- Employee of the Month - Automated Systems Corp. for outstanding team leadership - March 2025

EDUCATION

Bachelor's Degree in Electrical Engineering 2020

University of North Carolina at Charlotte GPA: 3.7 *Charlotte, NC*

Coursework: *Control Systems, Digital Circuit Design, Industrial Networks, Automation Design*

CERTIFICATIONS

- Certified Automation Professional (CAP) 2025
- Lean Six Sigma Green Belt Certification 2025

TECHNICAL SKILLS

- **Control Systems:** Rockwell Control Logix, Siemens S7, OPC UA
- **Programming Languages:** Python, Java, C#
- **Industrial Networking:** Ethernet/IP, DeviceNet, Profibus
- **Automation Technologies:** SCADA, HMI, DCS
- **Simulation Tools:** MATLAB, Simulink, LabVIEW
- **Budgeting Tools:** Microsoft Excel, QuickBooks, SAP
- **Maintenance Management:** CMMS, PM Software, Reliability-Centered Maintenance
- **Robotics Integration:** Fanuc Robotics, ABB Robotics, KUKA
- **Quality Management:** ISO 9001, Six Sigma, Kaizen
- **Data Management:** SQL, MATLAB, Excel

SKILLS

- PLC Programming
- Industrial Automation
- Root Cause Analysis
- Team Leadership
- Preventive Maintenance Strategies
- Networking and Communications
- Logic Development
- Budget Management
- Integration Techniques
- Cross-Functional Collaboration
- Data Optimization
- Engineering Design
- Simulation Software
- Testing Protocols
- Compliance Standards

PROFESSIONAL AFFILIATIONS

- Member of the Institute of Electrical and Electronics Engineers (IEEE)
- Active participant in local engineering workshops focusing on automation trends

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST