

Tucker Peters

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SUMMARY

Experienced Senior Controls Engineer specializing in industrial automation and control systems for beverage manufacturing. Over eight years spent optimizing PLC, HMI, and SCADA systems, resulting in improved operational efficiencies. Adept at troubleshooting complex issues in high-paced environments and integrating automation solutions that drive safety and productivity. Strong commitment to continuous improvement principles ensures alignment with industry standards. Proven record of collaborating with teams across functions, including engineering, maintenance, and IT, promoting an atmosphere of trust while driving project success.

EXPERIENCE

Senior Controls Engineer

June 2018 - Present

Innovative Automation Solutions

Wheeling, WV

Oversaw the design and implementation of control systems for high-speed bottling lines, ensuring efficient operations aligned with business goals. Acted as a technical lead, inspiring project teams and mentoring junior engineers to optimize overall performance.

- Instituted enhanced programming for PLCs in bottling processes, which increased throughput by focusing on reliable performance.
- Developed sophisticated control architectures that minimized waste, significantly improving process efficiency over previous benchmarks.
- Successfully programmed Rockwell Automation and Siemens systems according to rigorous safety standards, winning praise for diligence and effectiveness.
- Spearheaded system integration efforts, linking MES with ERP systems for real-time production tracking and reporting.
- Provided expert guidance throughout commissioning phases, establishing proud project handovers aligned with operational necessities.
- Collaborated with cross-functional teams to troubleshoot issues, realizing a reduction in unexpected downtime through strategic problem resolution.

Controls Engineer

January 2015 - May 2018

Advanced Manufacturing Group

Cleveland, OH

Applied engineering expertise to develop automated material handling solutions that streamlined operations while enhancing overall reliability.

- Designed intricate control systems for crucial equipment, significantly elevating both system robustness and user satisfaction.
- Honed PLC and HMI programming skills to bolster operator interface experiences, leading to smoother operational controls.
- Executed testing protocols ensuring all control systems met comprehensive regulatory compliance and safety mechanisms.
- Worked alongside engineering departments for seamless integration with existing machinery, resolving transition challenges effectively.
- Created detailed documentation to clarify specifications and enhance communication among stakeholders, underpinning project visibility.
- Acted proactively as a mentor for less experienced team members, fostering growth through a collaborative learning environment.

Junior Controls Engineer

August 2013 - December 2014

Techno Solutions Inc.

Columbus, OH

Initiated impactful contributions through coding and support for automated systems, assisting in the realization of substantial productivity improvements.

- Contributed to PLC program development for packaging machinery, impacting turnaround time favorably and enhancing output.
- Supported commissioning activities on beverage lines, aligning closely with timetables and operational delivery goals.
- Proactively engaged with multi-disciplinary teams, formulating solutions for immediate operational challenges in live settings.
- Conducted training sessions on new automations, amplifying safety awareness and assurance among operators using advanced systems.
- Researched upcoming control technologies, presenting findings to identify potential applications that broadened existing capabilities.
- Participated actively in audits and reviews, reinforcing operational compliance commitments amid ongoing reviews.

LEADERSHIP & AWARDS

- Employee of the Month for outstanding contributions towards project completion and team collaboration.
- Safety Excellence Award for maintaining top safety scores through conscientious practices in various projects.

EDUCATION

Bachelor's Degree in Electrical Engineering

2013

University of Pittsburgh GPA: 3.5

Pittsburgh, PA

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

CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2020
- Professional Engineer (PE) - Electrical Engineering 📅 2018

TECHNICAL SKILLS

- **PLC Technologies:** Allen-Bradley, Siemens, Rockwell Automation
- **HMI Platforms:** PanelView, Ignition, Wonderware
- **SCADA Systems:** Ignition, FactoryTalk, C implicity
- **Communication Protocols:** Ethernet I/P, DeviceNet, DH+
- **Control Standards:** ISA, NFPA, ANSI
- **Documentation Tools:** Visio, AutoCAD, Microsoft Office
- **Data Systems:** MES, WMS, ERP
- **Sensor Technologies:** Photoelectric, Proximity, Pressure Sensors
- **Testing Tools:** Multimeter, Oscilloscope, Signal Generator
- **Quality Assurance:** ISO 9001, Six Sigma, Lean Manufacturing

SKILLS

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|--------------------------|----------------------------------|---------------------------|----------------------|
| • PLC Programming | • Troubleshooting | • Integration | • Testing Validation |
| • HMI Development | • Project Management | • System Commissioning | • User Training |
| • SCADA Systems | • Cross-Functional Collaboration | • Continuous Improvement | • Safety Audits |
| • Automation Engineering | • Industrial Control Systems | • Technical Documentation | • Mentorship |

PROFESSIONAL AFFILIATIONS

- Member of the Institute of Electrical and Electronics Engineers (IEEE), participating in knowledge sharing and professional growth opportunities.
- Active participant in local engineering meetups, exchanging insights and networking within the engineering community.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST