

Waylon Tran

Sr Instrumentation & Control Engineer

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SUMMARY

Energetic Sr Instrumentation and Control Engineer bringing over six years of comprehensive experience in designing, implementing, and optimizing control systems, particularly within data centers. Respected for leading multidisciplinary teams to achieve superior engineering outcomes and ensuring adherence to tough quality standards. Proven record in efficiently managing projects from conception to completion while fostering interdepartmental collaboration and seamless communication. Adept at preparing essential documentation that guides project specifications and enhances clarity among stakeholders. Looking forward to contributing expertise and innovative solutions through tech-savvy methods emphasizing operational excellence.

EXPERIENCE

Sr Instrumentation Engineer

Tech Solutions Inc. 📅 January 2020 – Present 📍 Chicago, IL

In leadership role as Sr Instrumentation Engineer overseeing critical design and execution of process controls for data center operations. Ensures high compliance with technical standards, efficient procedural flows, and collaborative teamwork.

- Orchestrated design and implementation of sophisticated control systems reports used for complex data center operations.
- Developed detailed technical specifications and critical control narratives improving transparency while adhering strictly to professional standards.
- Managed project workflows concurrently, collaborating effectively with various departments to guarantee timely completion within the outlined budgets.
- Provided exemplary on-site support during system startups; identified and resolved challenges facilitating smooth transitions to operational readiness.
- Mentored junior engineers, promoting continuous growth and fostering an environment rich with dialogue and shared learning imperatives.
- Coordinated the creation of user training materials, enhancing team readiness while embedding best practices within existing protocols.

Instrumentation Engineer

Innovative Controls Ltd. 📅 June 2017 – December 2019 📍 Naperville, IL

Served as key contributor in medium-scale instrumentation sectors. Worked alongside tight-knit teams to foster innovation and implement robust control solutions for evolving commercial facility needs.

- Engineered unique PID diagrams, calibrated elements precisely for an array of client projects resulting in significant operational effectiveness.
- Conducted comprehensive site evaluations, generating insightful reports to drive enhancement efforts within our current infrastructural frameworks.
- Pioneered initiatives tracing back to problem-solving discussions providing superior technical insight crucial in rectifying various fixture complications.
- Executed optimization procedures successfully nurturing control systems redefined service levels across multiple domains throughout implementations.
- Participated actively in personnel training activities blossoming a culture of competency which increased performance benchmarks significantly within assigned timelines.

Junior Instrumentation Engineer

Future Tech Engineering 📅 March 2015 – May 2017 📍 Aurora, IL

Assisted in establishing fundamental control configurations primarily intended for varied industrial applications under seasoned professionals.

- Supported senior engineers on system commissioning tasks guaranteeing high-quality deliverables aligning with client expectations.
- Contributed diligently towards accurate project documentation building user manuals prior to handover ensuring thoroughness and equal understanding.
- Collaborated intimately across teams gathering specific requirements converting them into actionable technical solutions designed for enhanced outcomes.
- Engaged enthusiastically throughout training sessions quickly grasping new technology patterns elevating personal efficacy along industry standards.
- Adeptly assisted in tracking improvement possibilities encouraging colleagues by contributing innovative propositions streamlining operational efficiency.

LEADERSHIP & AWARDS

- Professional Leadership Award, 2023 - Recognized for outstanding contributions through project management and mentorship across diverse teams.

- Innovation in Engineering Award, 2022 - Acknowledged for designing an effective automated system optimizing resource allocation upon strategic assessments.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois 🎓 GPA: 3.8 📅 2015 📍 Champaign, IL

Coursework: Control Systems, Circuit Analysis, Digital Electronics, Signal Processing

CERTIFICATIONS

- Professional Engineering License (PE) 📅 2020
- Certified Control Systems Technician (CCST) 📅 2021

TECHNICAL SKILLS

- **Control Systems Tools:** Modbus, BMS, SCADA
- **Simulation Software:** MATLAB, Simulink, LabVIEW
- **Engineering Standards:** ISA, IEEE, IPC
- **Documentation Tools:** AutoCAD, Revit, Visio
- **Testing Methods:** Factory Acceptance Testing, Site Acceptance Testing, Commissioning
- **Safety Protocols:** NFPA, ANSI, OSHA
- **Analytical Software:** Excel, Tableau, Python
- **Network Topology:** Ethernet/IP, TCP/IP, RS-485
- **Database Systems:** SQL Server, Oracle, MySQL
- **Development Methodologies:** Agile, Waterfall, Lean Six Sigma

SKILLS

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| • Instrumentation Design | • Team Leadership | • Data Center Design | • Control Narratives |
| • Control Systems Engineering | • Building Management Systems (BMS) | • Distributed Control Systems | • Site Assessments |
| • Project Management | • SCADA Systems | • Mission Critical Systems | • Mentoring |
| • Technical Specifications | • Problem Solving | • Valves Sizing | |

PROFESSIONAL AFFILIATIONS

- Institute of Electrical and Electronics Engineers (IEEE), member since 2016.
- Control System Society, active participant engaging in dialogues addressing current advancements and collective learning opportunities.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST