

Joon King

Instrument Engineer

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SUMMARY

Motivated Instrument Engineer with more than 3 years in electrical and instrumentation engineering across industrial environments. Demonstrated expertise in applying National Electrical Code (NEC) standards along with a talent for crafting effective engineering solutions. Proficient in recommending and specifying instrumentation for various applications while ensuring systems function reliably and efficiently. Solid experience collaborating with cross-functional teams, focusing on project support, design reviews, and successful management of electrical deliverables. Eager to further contribute this expertise within a dynamic team tasked with optimizing operations.

EXPERIENCE

Instrument Engineer

Spectrum Electrical Solutions 📅 June 2023 - Present 📍 Metairie, LA

Oversees design and implementation of diverse electrical and instrumentation systems for industrial projects. Works closely with teams on reliability goals to enhance performance while adhering to design standards.

- Spearheaded development and execution of electrical and instrumentation designs across several projects, enhancing efficiency and functionality.
- Collaborated with maintenance team to craft and implement reliability objectives, leading to system enhancements.
- Provided critical engineering support for capital projects, with emphasis on instrumentation specification and design compliance.
- Created thorough job scopes and drawing packages for projects, aligning documentation with specified requirements.
- Performed critical lighting level and voltage drop calculations, contributing to improved safety in installations.
- Utilized AutoCAD and MS Office to produce accurate installation documents, enhancing cross-departmental communication.

Junior Instrument Engineer

ElectroTech Innovations 📅 January 2021 - May 2023 📍 Lafayette, LA

Assisted senior engineers in designing control systems and instrumentation that meet industry standards. Helped improve the functionality, reliability, and documentation accuracy of various systems.

- Facilitated design and installation of control systems, ensuring industry compliance while supporting project objectives.
- Collaborated with engineers to assess design packages, contributing valuable insights that refined project reliability requirements.
- Developed intricate specifications and data sheets for instrumentation, streamlining operational efficiencies through improved documentation.
- Engaged in cost estimation and project scheduling discussions, aiding resource planning for engineering undertakings.
- Conducted field assessments, identifying improvements to existing instrumentation which enhanced reliability.
- Worked with diverse teams to execute projects efficiently, fostering a strong group cohesion around defined engineering outcomes.

LEADERSHIP & AWARDS

- Dean's List, Louisiana State University, Fall 2019 - Spring 2021
- Best Presentation Award, Engineering Symposium, 2020

EDUCATION

Bachelor's Degree in Electrical Engineering

Louisiana State University 🎓 GPA: 3.6 📅 2021 📍 Baton Rouge, LA

Coursework: Circuit Theory, Power Systems, Control Systems, Electronics

CERTIFICATIONS

- Engineer-in-Training (EIT) 📅 2021
- Certified Automation Professional (CAP) 📅 2025

TECHNICAL SKILLS

- **Engineering Design Standards:** NEC, ISA
- **Electrical Engineering Tools:** AutoCAD, Microstation
- **Office Software:** Microsoft Word, Excel, Outlook
- **Cost Estimation Methods:** Quantitative Analysis, Resource Planning
- **Design Software:** Control Systems, CAD Drafting Standards
- **Documentation Practices:** Drawing Packages, Job Scopes

- **Project Support Frameworks:** Leadership Coordination, Technical Compliance
- **Calculations Expertise:** Load Center Loading, Conduit Fill Calculation
- **Reliability Assessment Techniques:** System Performance Evaluation
- **Interdepartmental Communication Tools:** Cross-Divisional Collaboration

SKILLS

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|--|-----------------------------|--------------------------------|----------------------------|
| • Electrical Engineering Design | • Microsoft Office Suite | • Field Assessments | • Document Preparation |
| • Instrumentation Specification | • Communication Skills | • Instrumentation Standards | • Client Engagement |
| • CAD Software (AutoCAD, Microstation) | • Lighting Calculations | • Construction Cost Estimation | • Maintenance Coordination |
| • Project Management | • Voltage Drop Calculations | • Reliability Engineering | |

PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Volunteer, Habitat for Humanity

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST