

Joon King

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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

June 2023 - Present

Spectrum Electrical Solutions

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

January 2021 - May 2023

ElectroTech Innovations

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

2021

Louisiana State University GPA: 3.6

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