

# 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**

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

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

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AVAILABLE ON REQUEST