

Joseph Kim

Senior Electrical Design Engineer

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SUMMARY

A seasoned Electrical Design Engineer with over seven years' experience leading projects across diverse settings such as water, wastewater, and industrial sectors. Successfully designed and implemented power systems and electrical plans that integrate renewables and modern efficiency techniques. Eager to contribute leadership skills, collaborate with multidisciplinary teams, and mentor junior engineers in fostering a culture of excellence. Past experiences reflect a commitment to enhancing project delivery while ensuring compliance with industry standards, resulting in improved client satisfaction and operational focus.

EXPERIENCE

Senior Electrical Design Engineer

ElectraTech Solutions 📅 January 2022 - Present 📍 Chicago, IL

In this pivotal role, led efforts in advancing electrical engineering projects centered around federal and industrial markets, emphasizing effective power system design. Collaborated with multidisciplinary stakeholders to ensure deliverables met stringent compliance regulations.

- Directed the development and implementation of complex electrical systems, focusing on sustainability and energy efficiency.
- Conducted comprehensive studies, ensuring designs supported regulatory requirements while optimizing client operations.
- Mentored junior engineers in electrical design principles, promoting knowledge sharing and professional growth.
- Collaborated with sales teams during proposal phases, aligning project goals with client expectations and industry practices.
- Represented company at major conferences, delivering presentations that showcased innovative engineering solutions and built partnerships.
- Reviewed technical specifications to assure adherence to industry standards, contributing to successful project outcomes.

Electrical Design Engineer

GreenWave Engineering 📅 June 2018 - December 2021 📍 Chicago, IL

Focused on refining electrical designs for municipal water and wastewater facilities, driving initiatives that enhanced reliability and compliance. Engaged directly with clients to assess needs and deliver systematic improvements across several projects.

- Designed and executed electrical systems to augment operational reliability for municipal projects.
- Performed rigorous field studies that validated design criteria, significantly minimizing construction errors.
- Fostered cross-department collaboration to speed up project timelines and improve design efficiency.
- Developed clear and detailed documentation, supporting engineering proposals and ensuring transparency with clients.
- Took part in mentoring schemes aimed at training new engineers in essential design processes and standards.

Electrical Engineer

Bright Future Engineers 📅 March 2016 - May 2018 📍 Chicago, IL

Engaged in comprehensive design analysis and testing of various electrical systems, ensuring alignment with both safety regulations and client specifications. Contributed to strategic meetings focused on project enhancement based on analytical data.

- Supported senior engineers in designing electrical solutions that complied with safety standards and requirements.
- Executed simulations and diagnostics to find efficiencies within power systems, proposing actionable improvements.
- Authored specifications for electrical installations that facilitated seamless project implementations.
- Collaborated with project leads to adapt designs based on real-world feedback from clients and site evaluations.
- Managed project documentation ensuring high quality and adherence to standards, improving stakeholder communication.

LEADERSHIP & AWARDS

- Recipient of the National Outstanding Young Engineer Award in 2020 for contributions to community engineering projects.
- Recognized by peers for outstanding mentorship in 2021; developed training materials now used for onboarding new engineers.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Illinois at Chicago 🎓 GPA: 3.8 📅 2016 📍 Chicago, IL

Coursework: *Circuit Analysis, Power Systems, Renewable Energy, Control Systems*

CERTIFICATIONS

- Professional Engineer License (PE) 📅 2020
- Leadership Training for Engineers 📅 2021

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, Revit, ETAP
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** JIRA, Trello, Asana
- **Analytical Tools:** MATLAB, Simulink, MS Excel
- **Modeling Tools:** ModelSim, PSS/E, SKM PowerTools
- **Technical Standards:** NEC, IEEE, UL
- **Quality Assurance Standards:** ISO 9001, Six Sigma, ANSI
- **Documentation Platforms:** SharePoint, Confluence, Git
- **Renewable Technology:** Solar PV Systems, Wind Energy, Energy Storage Solutions
- **Field Measurement Tools:** Digital Multimeters, Oscilloscopes, Power Meters

SKILLS

- Electrical System Design
- Power System Studies
- CADD Software
- Project Management
- Technical Documentation
- Team Leadership
- Client Relations
- Field Studies
- Regulatory Compliance
- Sustainability Practices
- Renewable Energy Integration
- Technical Guidance
- Mentorship Programs
- Collaborative Design Processes
- Testing and Simulation
- Proposal Development

PROFESSIONAL AFFILIATIONS

- Active member of the Institute of Electrical and Electronics Engineers (IEEE), participating in workshops and webinars.
- Volunteer contributor at local non-profits, leading educational initiatives focused on sustainable engineering practices.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST