

Kendrick Lewis

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SUMMARY

Dynamic electrical engineer with over 10 years of extensive experience in the design and modification of electrical systems within nuclear and commercial power sectors. Proven track record leading engineering teams through complex project phases, ensuring compliance with industry standards and client requirements. Skilled in preparing detailed calculations, specifications, and documentation supporting project objectives. Committed to mentoring and developing junior engineers while fostering collaborative environments. Strong ability to engage with cross-disciplinary teams and clients, delivering results that align with strategic goals.

EXPERIENCE

Senior Electrical Engineer January 2021 – Present
Advanced Energy Solutions Chicago, IL

Oversee a dedicated team of engineers engaged in designing and analyzing electrical systems tailored for nuclear waste treatment facilities, balancing technical rigor with strategic vision.

- Led engineers to design and analyze robust electrical systems crucial for nuclear waste management, enhancing efficiency and safety.
- Managed complex project timelines and budgets, consistently meeting client requirements and regulatory regulations, boosting client satisfaction scores.
- Developed thorough electrical calculations, including arc flash assessments, contributing to comprehensive change proposals endorsed by regulatory bodies.
- Collaborated with vendors to prepare equipment specifications, ensuring procurement aligned seamlessly with project deadlines.
- Conducted independent reviews of engineering designs, improving accuracy and quality benchmarks across projects.
- Mentored junior engineers, enriching their abilities while creating a culture of knowledge sharing that strengthened the team.

Electrical Engineer June 2016 – December 2020
Nuclear Systems Corp. Chicago, IL

Contributed to significant electrical system design modifications within commercial nuclear power plant frameworks, excelling in teamwork and interdisciplinary communication.

- Participated actively in high-stakes design discussions, pushing for innovative solutions that positioned projects for success during critical phases.
- Collaborated comprehensively with project teams to develop master schematics and detailed design documentation aligned with specifications.
- Ensured all system design activities upheld relevant codes and specifications, maintaining operational excellence in delivery.
- Assisted in preparing clear reports that communicated complex technical information efficiently to stakeholders.
- Critically reviewed design drawings and calculations from peers, providing constructive feedback that cultivated growth among team members.
- Supported broader organizational initiatives to integrate automation and AI tools, advancing workflows that enhanced productivity.

Electrical Engineer February 2014 – May 2016
Power Engineering Inc. Chicago, IL

Engaged deeply in the development of electrical system specifications, irresponsibly traversing between engineering precision and client needs.

- Crafted comprehensive specifications for electrical systems involving transformers, generators, and other key components, aligning with project expectations.
- Conducted feasibility studies for new designs, identifying potential risks early and proposing strategies that mitigated impact on project delivery.
- Worked collaboratively with multidisciplinary teams, troubleshooting challenging engineering issues, resulting in timely resolutions.
- Actively participated in client meetings, discussing progress updates with direct implications for project direction and outcomes.
- Developed instructional training materials aimed at junior engineers to promote rigorous understanding of engineering standards and practices.
- Diligently pursued ongoing professional development opportunities, remaining abreast of evolving industry trends and technologies.

LEADERSHIP & AWARDS

- Top Engineer Award, Advanced Energy Solutions, 2022
- Excellence in Engineering Award, Nuclear Systems Corp., 2019

EDUCATION

Bachelor's Degree in Electrical Engineering 2013
University of Illinois at Chicago GPA: 3.8 Chicago, IL

Coursework: Circuit Analysis, Power Systems, Control Theory, Electromagnetics

CERTIFICATIONS

- Fundamentals of Engineering (FE) 📅 2014
- Project Management Professional (PMP) 📅 2018

TECHNICAL SKILLS

- **Programming Languages:** Python, MATLAB
- **Electrical Engineering Tools:** AutoCAD, ETAP, MATLAB Simulink
- **Project Management Software:** Microsoft Project, Trello, JIRA
- **Design Standards:** IEEE, NEC, IEC
- **Safety Standards:** OSHA, NESC, NFPA 70E
- **Simulation Software:** ANSYS, PSCAD, PSS@E
- **Documentation Tools:** MS Office Suite, Visio, SharePoint
- **Analysis Tools:** MATLAB, MathCAD, PSS@SINCAL
- **Workflow Automation:** LabVIEW, Alteryx, VBA
- **Vendor Management:** Dynamics 365, SAP, Oracle

SKILLS

- Electrical Design
- Project Management
- Team Leadership
- Automation Tools
- Technical Documentation
- Client Liaison
- Nuclear Systems Design
- Budget Management
- Specification Review
- Electrical Calculations
- Mentoring
- Feasibility Studies
- Collaboration
- Troubleshooting
- Quality Assurance

PROFESSIONAL AFFILIATIONS

- Member, IEEE Power and Energy Society
- Volunteer Mentor, Chicago Youth Engineering Program

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST