

Kaden Mosley

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 Des Moines, IA 50309

SUMMARY

Detail-oriented Electrical Engineering student with hands-on experience in utility systems and power engineering through academic projects. Demonstrates proficiency in data management, analysis, and presentation skills. Proven to work effectively in team environments while communicating technical information clearly. Eager to apply theoretical knowledge within the electrical utility sector at Innovative Energy Solutions, contributing positively to real-world projects in transmission and substation operations. Excited to support efforts that enhance energy reliability and innovation.

EDUCATION

Bachelor of Science in Electrical Engineering
Iowa State University GPA: 3.8
Coursework: Circuit Analysis, Power Systems, Control Systems, Electronics

2027
Ames, IA

TECHNICAL SKILLS

- **Software Tools:** MATLAB, AutoCAD, Simulink
- **Parentheses Based Query Languages:** SQL, REST API, XML
- **Simulation Software:** PSS/E, ETAP, PSCAD
- **Project Management Tools:** Trello, Asana, JIRA
- **Data Visualization Tools:** Tableau, Power BI, Excel
- **Power Systems Analysis:** Load Flow, Short Circuit, Protection Coordination
- **Technical Writing Standards:** IEEE Publications, APA Guidelines, ISO Standards
- **Analytical Methods:** Regression Analysis, Optimization, Numerical Simulation
- **Organizational Tools:** Microsoft OneNote, Google Drive, Evernote
- **Renewable Integration Tools:** HOMER, SAM, RETScreen

SKILLS

- Data Analysis
 - Power Flow Studies
- Microsoft Office Suite
 - Electrical System Design
- Technical Documentation
 - Communication Skills

EXPERIENCE

Power Systems Research Developer
University Project

January 2026 - Present
Des Moines, IA

Focused on enhancing transmission line efficiency using simulation software. Collaborated in collecting protection system data for accurate modeling in ongoing projects. Led documentation creation to clarify design specifications, streamlining the project's communication process.

- Developed simulations to illustrate electrical flow, increasing comprehension of practical applications beyond theories.
- Analyzed protection system data, influencing project outcomes by improving modeling accuracy in team discussions.
- Conducted thorough power flow studies, leveraging academic knowledge to assess system performance realistically.
- Documented design specifications and workflow processes, fostering better organization and clarity throughout the project lifecycle.
- Presented project insights at a university conference, receiving commendations for technical depth and presentation style.
- Utilized Microsoft Office tools consistently for data organization and effective project communication.

Substation Design Assistant
University Project

September 2025 - December 2025
Des Moines, IA

Participated in a capstone project focusing on substation design and planning. Contributed significantly to compiling system specifications and enhancing workflow efficiencies.

- Assisted in gathering critical ratings information for components, ensuring alignment with regulatory standards.
- Helped manage and organize substation records, creating a user-friendly digital filing system for enhanced access.
- Engaged actively in collaborative team discussions, proposing innovative solutions for existing design challenges.
- Conducted on-site research linking theoretical concepts with practical substation applications.
- Supported peer reviews of technical documents, elevating project quality through constructive feedback loops.

Electrical Engineering Research Assistant
Academic Research

May 2025 - August 2025
Des Moines, IA

Engaged in research around renewable energy integration into power grids, examining impacts on transmission stability. Played an integral role in publishing data findings.

- Performed comprehensive research on grid stability related to renewable energy technologies, extending analytical expertise.
- Compiling essential data for publications emphasized attention to details crucial for successful communication.
- Developed advanced simulations testing various integration scenarios, sharpening technical understanding of electrical systems.
- Collaborated with faculty to enhance presentation skills, preparing research demonstrations for broader audiences.
- Organized laboratory sessions encouraging a spiral learning approach among undergraduate participants via group exercises.

LEADERSHIP & AWARDS

- Dean's List, Iowa State University, 2025
- First Place, University Hackathon, 2025

CERTIFICATIONS

- Microsoft Office Specialist Certification 📅 2026
- Fundamentals of Engineering (FE) 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, 2025 - Present
- Volunteer, STEM Outreach Program, 2025 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST