

Jacob Pittman

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SUMMARY

Aspiring Electrical Engineer with a solid foundation in system design and engineering principles. Eager to contribute to innovative projects that advance power generation and distribution, while honing technical skills through teamwork. Hands-on experience with project specifications and technical drawings complements strong collaboration abilities. Dedicated to maintaining compliance with industry standards during every project phase. Enthusiastically engaged in continuous learning to elevate project outcomes and empower sustainable energy solutions.

EXPERIENCE

Electrical Engineer June 2026 - Present
Innovative Energy Solutions Chicago, IL

Responsibilities include designing electrical systems and ensuring compliance while leading initiative projects within the power generation sector. Engages with multifaceted teams to evolve existing processes, providing high-quality outputs under project timelines.

- Collaborated on design and analysis of electrical systems in power plants, adhering strictly to safety and efficiency standards.
- Developed comprehensive specifications for major equipment acquisitions, effectively reducing sourcing time and enhancing execution speed.
- Prepared detailed functional design drawings and integrated schematic diagrams, improving clarity across project deliverables.
- Executed auxiliary power studies, performing voltage drop calculations using advanced modeling techniques.
- Coordinated with suppliers to facilitate precise material procurement, fostering better vendor relationships.
- Actively participated in forums and workshops with industry professionals to stay informed on engineering best practices.

Electrical Engineering Intern January 2026 - May 2026
University Research Lab Chicago, IL

Assisted in research initiatives focusing on low-voltage electrical designs to improve operational series for various applications.

- Contributed to groundbreaking design modifications in ongoing research, reflecting innovative approaches to problem-solving.
- Utilized MATLAB extensively for simulations, automating substantial portions of data analysis to enhance workflow efficiency.
- Created thorough technical documentation and delivered informative presentations to both faculty and peers, enhancing overall communication.
- Took part in strategic meetings discussing project objectives, actively working to harmonize objectives among team members.
- Gained practical exposure in developing technical schematics and design specifications under close guidance.

Capstone Project Developer August 2025 - December 2025
University of Illinois Champaign, IL

Led a multidisciplinary team to innovate a renewable energy solution suitable for campus environments, integrating theoretical knowledge.

- Conducted feasibility analyses and prepared comprehensive project proposals aiming at stakeholder alignment and investment.
- Partnered with engineers on creating extensive engineering schematics, complimented by detailed technical reports for project finals.
- Presented innovative findings at departmental conferences, receiving accolades for creativity and efficient design methodology.
- Engaged continuously with community feedback throughout project development, refining the approach accordingly.
- Facilitated mentorship opportunities for peers, guiding them through complex concepts ingrained in electrical systems design.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, 2024-2026
- Engineering Excellence Award, University of Illinois, 2025

EDUCATION

Bachelor of Science in Electrical Engineering 2026
University of Illinois GPA: 3.8 Champaign, IL
Coursework: Electrical System Design, Circuit Analysis, Project Management, Control Systems

CERTIFICATIONS

- Fundamentals of Engineering (FE) Certification 📅 2026
- Engineer in Training (EIT) Designation 📅 2026

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, MATLAB, PSpice

- **System Design Tools:** ETAP, SKM Power Tools, SmartPlant
- **Simulation Platforms:** MATLAB Simulink, Simetrix, LTSpice
- **Documentation Tools:** Microsoft Word, Adobe Acrobat, LaTeX
- **Data Analysis Tools:** Microsoft Excel, Tableau, Python
- **Communication Platforms:** Microsoft Teams, Slack, Zoom
- **Standards & Codes:** NEC, IEEE, IEC
- **Control Systems:** PID Control, PLC Programming, SCADA
- **Project Management Tools:** Trello, Asana, JIRA
- **Electrical Hardware:** Transformers, Generators, Switchgear

SKILLS

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|----------------------------|---------------------------|---------------------------|-------------------------|
| • Electrical System Design | • Team Collaboration | • Project Specifications | • Engineering Drawings |
| • Technical Drawing | • Technical Documentation | • Technical Presentations | • Equipment Procurement |
| • MATLAB | • Voltage Calculations | • Schematic Diagrams | • Research Assistance |
| • MS Office | • Functional Design | • Feasibility Studies | |

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, University of Illinois
- Participant, National Engineering Design Competition, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST