

Kendrick Lewis

Protection & Automation Electrical Engineering Intern

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SUMMARY

As an Electrical Engineering student eager to contribute within a vibrant team, experience focuses on both theoretical and practical aspects of power systems and automation. Proficient in digital twin technologies and capable of utilizing engineering design processes, from AC/DC schematics to testing automation panels. Passionate about developing solutions in renewable technologies, including photovoltaic and battery systems, all while ensuring tight collaboration with stakeholders. Committed to turning academic knowledge into hands-on support for microgrid projects and enhancing customer engagement through effective communication and technical insight.

EDUCATION

Bachelor's Degree in Electrical Engineering

North Carolina State University  GPA: 3.5  2027  Raleigh, NC

Coursework: Microgrid Systems, Digital Twin Technologies, Circuit Design, Renewable Energy Integrations

TECHNICAL SKILLS

- **Simulation Tools:** Matlab, Simulink, PSS/E
- **Design Software:** AutoCAD, SolidWorks, ETAP
- **Meeting Management Tools:** Microsoft Teams, Zoom, Google Meet
- **Documentation Software:** Microsoft Word, LaTeX, Google Docs
- **Programming Languages:** Python, C++, Java
- **Control Engineering Tools:** Programmable Logic Controllers (PLC), SCADA Systems, HMI
- **Testing Equipment:** Multimeter, Oscilloscope, Function Generator
- **Networking Protocols:** TCP/IP, Modbus, CAN Bus
- **Data Analytics:** Excel, MATLAB, Tableau
- **Engineering Standards:** IEEE standards, IEC standards, NEC compliance

SKILLS

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|----------------------------|--------------------------|------------------------------------|----------------------------------|
| • Digital Twin Technology | • Project Management | • Electrical Equipment Familiarity | • Signal Processing |
| • AC/DC Circuit Design | • Team Collaboration | • Research Documentation | • Automation Systems |
| • Troubleshooting | • Power Systems Analysis | • Client Communication | • Testing Procedures |
| • Renewable Energy Systems | • Mechanical Drawings | • IoT Development | • Energy Efficiency Technologies |

EXPERIENCE

Electrical Engineering Student

University Project  January 2026 - Present  Raleigh, NC

Focused on designing reliable systems for energy distribution and integrating renewable sources. Worked extensively in project-oriented environments while coordinating team efforts to solve complex problems. Introduced modern simulation technology to foster better understanding of electrical applications.

- Collaborated to design a microgrid system powered by renewable sources, emphasizing battery integration.
- Developed digital twin simulations that streamlined the analysis of protection relay signals in various scenarios.
- Created detailed schematic documents for energy distribution projects, adhering strictly to engineering standards.
- Engaged actively in Factory Acceptance Testing (FAT) of automation panels to ensure quality and reliability.
- Configured and troubleshooted protection relays within simulated and controlled lab settings.
- Presented findings on the implications of renewable energy systems to faculty members.

Research Assistant

Academic Research  September 2025 - December 2025  Raleigh, NC

Contributed to academic advancements in renewable technology alongside professors while navigating complex datasets. Focused on translating technical scopes into manageable proposals to facilitate research objectives effectively.

- Analyzed data regarding photovoltaic systems and their seamless incorporation into existing grids.
- Assisted in framework development for proposals, conveying intricate information for varied audiences.
- Supported post-delivery activities by coordinating responses to warranty claims on prototypes.
- Worked closely with faculty to refine methodologies, adopting feedback for improved results.

- Authored thorough documentation detailing experimental procedures and outcomes.
- Prepared impactful presentations highlighting energy efficiency technologies for academic conferences.

Student Engineer

Hackathon Project 📅 February 2025 - March 2025 📍 Raleigh, NC

Engineered a prototype application centered around renewable energy monitoring. Collaborated with peers across disciplines, pushing boundaries of creativity within stringent timelines.

- Created an IoT application focused on real-time monitoring systems for enhanced resource management.
- Facilitated brainstorming sessions leading diverse teams toward innovative energy management strategies.
- Conducted user testing to iteratively improve application functionality based on feedback.
- Articulated project goals during presentations to industry experts, fostering significant professional connections.
- Integrated advanced programming techniques to process data within the application seamlessly.
- Documented all stages of concept development for comprehensive future reference.

LEADERSHIP & AWARDS

- Dean's List, North Carolina State University, 2025
- First Place, State Engineering Competition, 2025

CERTIFICATIONS

- Introduction to Renewable Energy 📅 2026
- Electrical Engineering Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter, 2025 – Present
- Volunteer, Engineering Outreach Program, 2024 – Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST