JOSEPH CHANDLER

ELECTRICAL ENGINEERING INTERN

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STRENGTHS

Collaboration
Partnered effectively with team members on various projects, influencing positive outcomes and deepening trust among colleagues.

Adaptability
Thrived in fast-paced environments, smoothly shifting focus between tasks without sacrificing quality or deadlines.

Critical Thinking
Applied analytical skills to tackle complex engineering challenges, leading teams toward successful resolutions and innovations.

Technical Expertise
Demonstrated solid grasp of fundamentals in electrical engineering, garnishing respect among research peers and professors alike.

Mentorship
Guided fellow students through intricate projects fostering teamwork and growing collective knowledge in our field.

SKILLS

Power Electronics
Test Setup Design | Circuit Analysis
Programming (Python, C++)
Schematic Interpretation

LANGUAGES

English — Native
Spanish — Intermediate

SUMMARY

Enthusiastic electrical engineering student with hands-on experience in developing and testing electrical systems through academic projects. Currently pursuing a Bachelor's degree, showcasing strong understanding of power electronics, test setup design, and firmware development. Proven ability to work independently and adapt to rapidly changing priorities while collaborating effectively within teams. Contributed to improvement initiatives aimed at enhancing testing procedures and system reliability. Demonstrated competence in conducting tests on high-voltage components and creating documentation that streamlines future processes. Excited about leveraging practical skills to add value in a dynamic team environment.

EDUCATION

Bachelor's Degree in Electrical Engineering
Boston University GPA: 3.8 2026 Boston, MA
Coursework: *Circuit Analysis, Power Systems, Embedded Systems, Electronics Communication*

TECHNICAL SKILLS

- **Programming Languages:** Python, C++
- **Simulation Software:** MATLAB, Simulink, LTSpice
- **Testing Equipment:** Oscilloscope, Multimeter, Power Analyzer
- **Circuit Design Tools:** Eagle, Altium, KiCad
- **Data Analysis:** Excel, MATLAB
- **Documentation Standards:** IEEE, ASME
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Version Control:** Git, GitHub
- **Embedded Systems:** Arduino, Raspberry Pi
- **Power System Analysis:** ETAP, PSS/E, PSCAD

EXPERIENCE

Electrical Engineering Intern
University Project January 2026 - Present Boston, MA

Supported by academic knowledge, engaged in developing test setups for high-voltage electrical systems focusing on power conversion, inverter efficiency, and IoT devices. Experience includes performing functional testing and collaborating with peers on system improvements.

- Developed test setups for high-voltage electrical systems, focusing on power conversion and inverter efficiency.
- Conducted performance testing on electrical components to validate functionality and reliability.
- Collaborated with a team to design and implement improvements in testing processes, enhancing accuracy significantly.
- Engaged in troubleshooting and resolving issues within electronic systems, applying electrical concepts learned in coursework.
- Contributed towards documentation of test results and procedures that streamline future project efforts.
- Gained practical programming experience in languages for hardware communication during project implementations.

MY CAREER

- Electrical Engineering Intern at University Project (7 Months)
- Research Assistant at Academic Research (3 Months)
- Capstone Project Developer at Course Project (4 Months)

Research Assistant

Academic Research | September 2025 - December 2025 | Boston, MA

Assisted in prototype development of battery management systems for renewable energy applications. Aimed at improving energy efficiency through research-led approaches under faculty guidance.

- Participated in laboratory experiments analyzing the performance of diverse energy storage technologies.
- Utilized simulation software to model electrical circuits and assess system behavior under varying conditions.
- Collaborated on research papers targeting advancements in power electronics for publication.
- Contributed effectively in preparation and presentation of findings at university-sponsored research symposiums.
- Acquired essential schematic design skills through hands-on lab experiences involved in electrical component analysis.

Capstone Project Developer

Course Project | January 2025 - May 2025 | Boston, MA

Led a responsive team focused on designing and prototyping a solar power inverter aimed at optimizing sustainable energy solutions. Managed project milestones while maintaining compliance with safety standards.

- Conducted feasibility studies evaluating design options to optimize system performance effectively.
- Developed prototype solar inverter and performed rigorous testing verifying adherence to safety regulations.
- Documented all project phases thoroughly, ensuring clarity and insights were available for review and feedback.
- Facilitated peer mentoring, guiding junior students through fundamental principles of electrical engineering.
- Enhanced problem-solving skills by addressing unforeseen challenges encountered during the design process.

LEADERSHIP & AWARDS

- Dean's List, Boston University (2024, 2025)
- First Place, University Hackathon (2025)

CERTIFICATIONS

- Introduction to Power Electronics 2026
- Fundamentals of Electrical Engineering 2026

PROFESSIONAL AFFILIATIONS

- Member, IEEE Student Chapter
- Participant, Engineering Student Association

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST