ANDREW FLEMING

ELECTRICAL ENGINEERING STUDENT

CONTACT

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SKILLS

- Altium
- NI Multisim
- LTSpice
- MATLAB
- C++
- Microsoft Office
- AutoCAD
- Analytical Skills
- Collaboration
- Problem Solving
- Control Systems

ACADEMIC WORK

Seattle Pacific University 2022-Present

- Electrical Engineering Major
- Appropriate and Substainable engineering Minor

Projects

- Airborne Wind Energy Generator
- Multilevel Voltage Regulator
- Bandpass Sallen Key circuit
- Aquatic Weather Probe
- Laser Tag System

Classes

- Electronics 1-4
- Logic System Design
- Computer Organization
- Signals and Systems
- Microgrids

PROFILE

I'm a senior Electrical Engineering student with a minor in Appropriate and Sustainable Engineering, pursuing a full-time position where I can grow while contributing to meaningful renewable energy projects. My experience spans PCB design, power electronics, microgrid systems, and power distribution. As Vice President of the IEEE student chapter, I've helped lead workshops, collaborate with professionals in the field, and stay engaged with the latest innovations driving sustainable power solutions.

WORK EXPERIENCE

Electrical Engineering Internship

OneEnergy Renewables June 2025 - September 2025

- Supported utility scale solar projects by designing solar fields, wiring diagrams, weather models, and site maps
- Applied technical skills in PVsyst and AutoCAD to model site performance

Lead Resident Advisor

Seattle Pacific University August 2023 - Present

- Facilitating weekly floor events to foster community
- Mediating student conflicts, and providing resources to help resolve issues
- Developing programs to engage and educate residents on mental health, financial literacy, and substance abuse

Vice President of Engineering Student Council

Seattle Pacific University August 2023 - Present

- Communicating with Faculty and the student body to improve courses and communication within the Engineering department
- Planning events to build community across the STEM field

Robotics Program Instructor

Bricks For Kids October 2022 - June 2023

- Managed equipment and materials in a timely and efficient manner
- Led 15-20 students through robotic building projects that developed problem solving skills

PUBLICATION

IEEE Research Paper

Accepted June 2025

A Framework on Hosting Capacity for Airborne Wind Energy in Urban Environments

- Designed a framework to evaluate hosting capacity for airborne wind systems in cities
- Assessed transformer, substation, and line constraints for reliable integration
- Simulated AWE performance using CFD and Wind Energy Conversion Systems