Cameren Banis

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SKILLS

Technical: Overhead and underground distribution design, microgrid and renewable energy systems design, PCB design, embedded systems (Arduino, STM32 NUCLEO), kinematic robotics systems

Software: OCalc-Pro, Altium Designer, Multisim, LTSpice, MATLAB, QTSpim, SolidWorks, Excel

Professional: Communication, technical documentation, collaboration, leadership, public speaking, adaptive problem-solving

Projects: Integrated PCB for Multi-Trim Automotive System, Dual Adjustable Multi-Output Power Supply, Multi-Load Control System for 20m Wind Turbine, Small-scale Airborne Wind Energy Generator

EDUCATION

Bachelor of Science in Electrical Engineering
Minor in Appropriate and Sustainable Engineering
Seattle Pacific University (Seattle, WA)
Expected graduation (June 2026)
GPA: 3.72 out of 4.0
Relevant Courses: Electronics I & II, Microgrids, Power Systems, Robotics, Signals and Systems, Control Systems

WORK EXPERIENCE

Electrical Engineering Design Intern (Jun. 2025-Sep. 2025)
Hawaiian Electric Company (Honolulu, HI)

- Produced engineering drawings for the reconductoring of 12kV distribution lines, installation of fire-safe fuses and cutouts, and replacement of utility poles.
- Conducted pole load modeling using CAD software and company databases to analyze structural performance.
- Produced butterfly diagrams of the downtown 12kV distribution underground circuit to be used in engineering drawings.
- Developed engineering solutions to pole loading failures in compliance with National Electrical Safety Code (NESC) standards.

IEEE Research Paper (Accepted June 2025)
Seattle Pacific University (Seattle, WA)

- BANIS C.; GRAHAM G.; OZKAN S.; RODRIGUES Y. R.; "Comparative Analysis of Airborne Wind Energy and Conventional Wind Turbines for Microgrid Applications," IEEE PES/IAS PowerAfrica, Cairo – Egypt, 2025. (Accepted)
- Conducted research alongside peers and professionals on airborne wind energy viability through performance modeling, system simulations, and comparative power output analysis under varying wind conditions.

Physics Learning Assistant (Sep. 2023-Present)
Seattle Pacific University Physics Department (Seattle, WA)

- Assisting 20-30 students in learning general physics.
- Learning and utilizing adaptive teaching methods.
- Offering 3-4 tutoring sessions outside of class.

LEADERSHIP EXPERIENCE

IEEE Club Chair (Sep. 2023-Jun. 2025)
Seattle Pacific University (Seattle, WA)

- Organized networking events and industry tech talks for 20+ students, connecting them with IEEE professionals.
- Hosted technical training on Altium software, PCB design, and electrical lab equipment while supporting student professional development.