STEPHANIE SCHAUPP

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EDUCATION

University of California, Berkeley **Berkeley, CA**

B.S. Energy Engineering Expected graduation: **May 2027**

Coursework: Introduction to Electric Power and Renewable Energy, Power Electronics, PCB Design, Three-Dimensional Modeling for Design

PROFESSIONAL EXPERIENCE

Pilawa Research Group • Research Assistant *Sep 2025 – Present* • **Berkeley, CA**

- Redesigned and implemented a station safety system for high-voltage circuits, analyzing prior documentation, updating control software, replacing hardware components, replicating the system across multiple lab stations, and creating new safety protocols for all lab users
- Validated the safety system using PLECS circuit simulations and iterative testing to ensure compliance with lab safety standards

Zoox • Technical Program Manager Intern *May 2025 – Aug 2025* • **Foster City, CA**

- Streamlined program coordination by standardizing the Confluence documentation process and Jira usage across 5 different subteams
- Collaborated cross-functionally with the manufacturing team managers to identify and define six KPIs for quality, safety, cost, and production efficiency for the newest Zoox release, aligning team expectations and establishing a company baseline for metric language
- Designed four UI mockups in Figma for a KPI dashboard, supporting the effort towards real-time data integration and monitoring
- Partnered with the Experimental Engineering team to automate the data collection, analysis, and visualization of quality inspection tickets created in Jira, to track status, identify trends in root cause analyses, and facilitate data-driven decision-making in resource allocation

CalSol • Battery Manufacturing Team Member *Jan 2024 – Jan 2025* • **Berkeley, CA**

- Gained proficiency in Lithium-ion battery pack assembly and manufacturing, contributing to the completion of a 17-module pack for solar car racing, ensuring optimized energy output, long-term durability, and strict adherence to safety and performance standards
- Designed metal components for the battery using CAD, optimizing mechanical integrity, electrical conduction, and heat management
- Enhanced battery performance by optimizing PCB design, strategically integrating busbars, tabs, thermistors, Wurths, keystones, Molex pins, and other essential components to minimize resistance, improve electrical connectivity, and enable battery health monitoring

US Department of Energy • Solar Manufacturing Intern *June 2024 – Aug 2024* • **Remote**

- Optimized supply chain logistics by conducting primary and secondary quality analyses on current supply chain initiatives, and securing 3+ suppliers for each chemical ingredient to improve scaling efficiency and mitigate supply chain risks highlighted during Covid-19
- Developed a Python-based cost model for copper paste to simulate 10+ material, efficiency, and policy scenarios aimed at optimizing resource allocation, ultimately guiding pricing models for scaled projections of product to enter the PV market landscape
- Collaborated with NREL to integrate the BTF cost model for paste manufacturing and DCAM model to project downstream domestic supply chain costs, yielding insights into cell, module, and installation costs, and devising mitigation strategies leveraging BTF technology

LEADERSHIP EXPERIENCE

Phi Beta Lambda Consulting (FBLA PBL) • Vice President of Projects *Aug 2025 – Present* • **Berkeley, CA**

- Directed a team of ten project managers through client sourcing and project execution, providing training in team management and discussion facilitation to strengthen leadership capabilities, ensure seamless client communication, and secure a 50k+ revenue
- Supported club presidents with recruitment, business operations decisions, and curriculum development for a club of 120+ members

Alpha Delta Pi • Director of Professional Development *Dec 2024 – Present* • **Berkeley, CA**

- Connected chapter members with 20+ prevalent alumnae and industry professionals to provide personalized career guidance and support
- Organized workshops, networking events, and interactive training on resumes and interviews for 170+ chapter members

SKILLS

Programming & Data Analysis: R-Studio, Python, MATLAB, Looker, SmartSheet
Engineering Design: CAD, SolidWorks, PCB Manufacturing, KiCad, PLECS
Research: Academic Literature Review, Technical Reports and Presentations, Supply Chain Modeling
Other: Korean (proficient), Google Suite, Microsoft Office, Jira, Figma, Confluence, Market Research, Team Management