

### Summary

Electrical Engineering & Computer Science student at UC Berkeley with hands-on experience in robotics, CAD, hardware, and project management. Adept at translating engineering concepts into physical systems through design, prototyping, and systems integration. Seeking a technical role to leverage my skills in engineering leadership and development of innovative, ethical, and inclusive technological solutions.

### Education

#### University of California, Berkeley

Berkeley, CA

B.S. Electrical Engineering and Computer Science • GPA 3.6 • Expected Graduation May 2028

**Relevant Coursework:** Python, Java & Data Structures, Signals & Systems, Discrete Math and Probability Theory

**Expected Completion Spring 2026:** Circuits & Devices, PCB Design, C & Computer Architecture

### Experience

#### CalSol – Solar Racing Team

##### Solar Project Manager

August 2024 – PRESENT

- Lead a 20+ member team responsible for solar module wiring, bypass diode soldering, and cell integration.
- Integrating the solar array into battery via MPPT, coordinating with electrical and mechanical teams on cross-functional requirements.
- Optimized rib and solar panel layout using SOLIDWORKS and ANSYS structural simulations.

#### FIRST Robotics Competition Team 2643

##### President • Project Manager • Safety Captain

August 2020 – May 2024

- Directed the design, wiring, and testing of multi-sensor robotic systems for 50+ member team.
- Maintained the robot's master CAD assembly; coordinated mechanical, electrical, and software teams
- Integrated subsystems with motor controllers, encoders, and vision sensors to create reliable, competitive robots.
- Documented engineering practices to support safety and reliability during development.

#### Society of Women Engineers

##### Advocacy Chair • Equity and Inclusion Working Body Co-Chair

August 2024 – PRESENT

- Advocate for underrepresented students in engineering and serve as collegiate representative for the National SWE Disability Inclusion Affinity Group, strengthening communication and cross organizational collaboration
- Organizes events on workplace equity, resilience and self-advocacy
- Revitalized E&I Working Body with the goal of identifying policy improvements to support engineers.

#### Java Exploration Game

##### Co-Designer and Developer

Collaborated with a teammate to build a 2D, grid-based exploration game in. Contributing to design decisions, state management logic, and real-time user interaction components. Strengthens skills in object-oriented programming, collaborative development practices, and designing systems with clear functional requirements.

### Skills & Interests

**Hardware:** Soldering, sensor testing, subsystem integration, multimeter debugging

**Software:** Python, Java, Github

**CAD:** SOLIDWORKS, Onshape, Autodesk Fusion 360, ANSYS (structural simulations), KiCAD

**Languages:** English (Native), Tamil (Native), Spanish (Conversational)

**Interests:** Exploring robotics and HCI, audio engineering (violinist and audio director for university film orchestra)