Aashrith Beesabathuni

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EDUCATION

University of California, Berkeley (3.8 GPA) **May 2026**

B.S. Electrical Engineering and Computer Science,

- **Coursework**: Embedded and Cyber-Physical Systems | Microelectronic Devices | Digital Design and Integrated Circuits | Robotic Locomotion | Internet of Things| Computer Architecture | Manufacturing and Design Communication
- **Activities:** Neurotech @ Berkeley | Engineering Solutions @ Berkeley | Cal Hiking and Outdoor Society

SKILLS

- **Design Softwares:** Solidworks | KiCAD | Autodesk Inventor | Vivado | LTSpice | FEA (Solidworks + Inventor)
- **Coding Softwares:** Python (Libraries: numpy, matplotlib, openCV) | Java | Arduino IDE | ROS | C
- **Lab Skills:** CNC Router | EE Debugging (Oscilloscope, Multimeter) | SLA 3D Printing | DAQ | Sensor Integration

WORK EXPERIENCE

Apple **September 2024 - August 2025**

Mac SoC Package Integration Intern *Cupertino, CA*

- Led design of x-functional EMI Test Vehicle to validate PCB noise leakage, collaborating with EE, ME, & EPMs with a 100k budget, enabling early failure mode detection of varying design solutions to inform design of next gen MacBook Pro
- Designed next-gen Apple silicon packaging solutions, achieving product goals with a ~40% reduction in EMI coupling
- Led MSPI team's recycled material validation plan across all Mac systems, enabling up to 90% recycled content alloys for SoC related parts to achieve Apple's 2030 carbon neutral goals

Molex **May 2024 - August 2024**

Automation Engineer Intern *Carlsbad, CA*

- Tested and developed Fiber Array aligner machines, utilizing serial communication protocols to automate fiber array process within 4 micron precision, enabling a ramp up in production for 200k trans-receiver modules per month
- Improved Python backend to automate aligning process, interfacing with existing GUI in labview used by 200+ workers
- Wrote Powershell scripts to efficiently download and install necessary software on machines, further automating workflow

Designing Information Devices and Systems II **January 2024 – May 2024**

Teaching Assistant *Berkeley, CA*

- Led lab sections, reinforcing concepts of circuitry, system stability, and linear algebra to 400+ students across all ages
- Facilitated hands on learning for the creation of students' voice controlled car, debugging issue related to analog circuit creation, Python scripts for voice recognition, and control system integration over the course of a full semester
- Reviewed and verified course material, ensuring working Jupyter Notebook, Lab equipment, and circuit components

RobLES Project **August 2023 – May 2024**

Devices Team Member *Berkeley, CA*

- Research and designed attachable robotic limbs controlled through impulses received from user's abdominal region
- Modeled arms in Onshape, creating 6 DOF robotic limbs capable of supporting end effector claws. Ensured design was easily interfaceable with all potential electronics housed in it, while prioritizing the safety of the user and those nearby
- Iterated on previous front end circuit designs to attenuate desired signal readings from planted electrodes on user's body

Sentien Robotics **January 2023 – May 2023**

Engineering Consultant *San Francisco, CA*

- Utilized Solidworks to model package sorting mechanism aimed at enabling Sentien Robotics to expand into fields of drone delivery. Conducted FEA analysis to ensure system's stability and ability to handle 30+ packages
- Implemented Bluetooth communication through HC-05 modules and Arduino microcontrollers for wireless transmissions, while working within the constraints of many unique drones' internal communication interfaces