

Dulanya Cooray

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EDUCATION

University of California, Berkeley

Bachelor of Science, Electrical Engineering & Computer Science

May 2024

GPA 3.61/4.00

Honors: Leadership Award for Incoming Students, UC Berkeley (2020), Merit-Based Departmental Scholarships, UC Berkeley (2022-23)

Relevant Coursework: Microelectronic Devices and Circuits, Microfabrication Technology, Integrated Circuit Devices, Introduction to Photovoltaic Devices, Properties of Materials, Data Structures, Computer Architecture

SKILLS

Programming Languages: C++ (fluent), Python (fluent), C (fluent), Java (fluent), HTML/CSS (familiar)

Technical Skills & Software: Git/Github, Circuit Design & Analysis, SPICE, PCB Design, Soldering, Simulation (COMSOL), Numpy, Pandas, Data Structures

Multilingual: English, French, Sinhala

EXPERIENCE

Herr Lab, UC Berkeley

Student Research Assistant

February 2023 - Present

- Advised by Professor Amy E. Herr (PhD) and Anna Fomitcheva Khartchenko (PhD).
- Designed device to perform single-cell Immunoblotting with increased multiplexing in independent project.
- Simulated device using COMSOL Multiphysics to examine electrical properties of the device and demonstrate its capability in performing the assay.
- Tested multiple iterations of the device, under different conditions, incorporating novel methods into device fabrication.
- Presented research during weekly lab meetings, and compiled results and analysis into a final report presented to mentors.

Space Technology and Rocketry (STAR), UC Berkeley

Avionics Chief Specialist

October 2020 - Present

- Led avionics (flight electronics and software) development across multiple projects through participating in design reviews, enabling communication between members, and providing technical support and training.
- Oversaw project timelines and budgets, managed avionics inventory, and allocated team resources accordingly to ensure all projects had the materials, skills, and time to succeed.
- Designed modular 'plug and play' PCBs for data acquisition, remote actuation, and power management that was successfully used for testing liquid engines.
- Communicated with companies to secure industry sponsorships and technical mentorship.
- Created and facilitated workshops in electronics and programming for new members. Created a structured program for on-boarding new members which was adopted by the full team.

Lawrence Berkeley National Lab

Student Research Assistant

June 2022 - December 2022

- Advised by George Michelogiannakis (PhD) and John Shalf (PhD).
- Analyzed data from the lab's HPC system, Perlmutter, and found resource under-utilization.
- Contributed to a publication, and presented a research poster at UC Berkeley Undergraduate Research Symposium.