

# Seiya Ono

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## Education

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### University of California, Berkeley

August 2015 - May 2020

Bachelor of Science - Electrical Engineering & Computer Science

GPA: 3.73

Intending to Pursue: Master of Science - Electrical Engineering & Computer Science

### Relevant Coursework:

Data Structures & Algorithms, Machine Structures, Microelectronic Devices & Circuits, Discrete Mathematics & Probability Theory, Operating Systems & System Programming, Signals & Systems, Microfabrication Technology, Integrated-Circuit Devices

Current Courses: Digital Design and ICs, MEMS

### Relevant School Projects:

MIPS Pipeline, MOSFET and OpAmp Characterization, Three stage MOSFET Small Signal Amplifier, PintOS Thread Scheduling/User Programs/File System, Fabricate & Characterize  $10\mu m$  devices

## Skills

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**Programming Languages:** Verilog, Java, Python, C

**Software:** Linux, Vivado, L<sup>A</sup>T<sub>E</sub>X, mbed, Jupyter Notebook, Arduino, Eagle, Cadence, Git

## Employment

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### Devices & Systems - Head Lab Teacher Assistant:

January 2017 - Current

Facilitate two 50 student 3 hour lab sessions a week

Oversee and facilitate the weekly lab trainings for lab TAs and lab assistants

Iteratively design and improve electrical engineering labs with professors and grad students

Rigorously test the labs and maintain the lab space to be suitable for students

Conduct behavioral and technical interviews to hire new teacher assistants for future semesters.

### Squishy Robotics - Electrical Engineer Intern:

May 2018 - August 2018

Redesign the robot's electrical stack to actuate a tensegrity, gather sensor data, and stream video

Prototype and design encoder boards, battery management systems, and audio/video multiplexing

Migrate the control stack away from Arduino to mbed and custom designed microcontroller boards

Work with mechanical engineers to devise creative mounting and enclosure solutions for electronics

## Volunteering

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### Arias Research Group:

January 2018 - Current

Research under Professor Ana Arias - Printed Electronics and Medical Sensors

Assist in the development of a Wifi enabled Electrocardiogram wearable medical device

### Pioneers in Engineering:

January 2016 - Current

Bringing STEM education to high school students through mentorship and a robotics competition

### Hardware Coordinator:

Coordinate the supply chain for parts and components for the electrical teams

Have full stack understanding of the electrical system and advise teams

Onboarding new hardware staff to work on projects by training their Eagle and Git skills

Integrate adjacent software, mech, and electrical teams in a collaborative environment

### Smart Sensor Project Manager & Advisor:

Design and prototype new sensors based around Arduino and competition design parameters

Mentor younger staff on PCB design principles while overseeing production