

Seiya Ono

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Education

University of California, Berkeley

Bachelor of Science: Electrical Engineering & Computer Science

August 2015 - May 2019

Major GPA: 3.73

Relevant Coursework:

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

Relevant School Projects:

Text Editor (Java Visual Library), MIPS Pipeline, MOSFET and OpAmp Characterization, Three stage MOSFET Small Signal Amplifier, PintOS Thread Scheduling/User Programs/File System, Fabricated & Characterized 10 μ m devices

Skills

Programming Languages: Java, Python, C

Software: GNU/Linux, L^AT_EX, mbed, Jupyter Notebook, Arduino, Eagle, Cadence, Git

Employment

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

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:

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

Put together schematics, route boards, build BOMs, and test the seven types of sensors