

Seiya Ono

scono12@berkeley.edu - (949) 278 - 6443 - www.seiyaono.com

Education

University of California, Berkeley

Bachelor of Science - Electrical Engineering & Computer Science
Master of Science - Electrical Engineering & Computer Science

August 2015 - May 2020

GPA: 3.76

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, Digital Design and ICs, MEMS

Current Courses: Solid State Devices, Photovoltaic Devices

Relevant School Projects:

Three stage MOSFET Small Signal Amplifier, PintOS Thread Scheduling/User Programs/File System, Microscale Device Fabrication & Characterization, FPGA implemented RISC-V CPU integrated with memory mapped UART, I2S, and VGA

Skills

Programming Languages: Verilog, Java, Python, C

Software: Linux, Vivado, L^AT_EX, mbed, Jupyter, ModelSim, 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 training for lab TAs and lab assistants

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

Design new labs for future semesters incorporating new lecture topics for the 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

Extracurricular

Arias Research Group:

January 2018 - Current

Undergraduate Research Assistant under Professor Ana Arias - Physical and Printed Electronics

Assist in the development of a Wifi enabled printed electrode ECG wearable medical device

Design a force sensor calibration jig to help characterize different force sensitive printed sensors

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