

Justin Shao

(408)-480-9859 | justinshao@g.ucla.edu | <https://www.linkedin.com/in/justin-shao/>

Education

University of California, Los Angeles	Expected Jun 2022
<ul style="list-style-type: none">• BS in Electrical Engineering, Minor in Mathematics, 3.98 GPA• Relevant Coursework: Systems and Signals, Digital Signal Processing, Internet of Things, Digital Imaging, Computer Organization, Machine Learning, Speech and Image Processing Systems Design, Feedback Control	
Other Coursework	
<ul style="list-style-type: none">• Coursera – Discrete Math for Computer Science Specialization, Math for Machine Learning Specialization• edX – Embedded Systems: Microcontroller Input/Output, Multi-Threaded Interfacing	

Experience

UCLA Electrical and Computer Engineering Department Teaching Assistant	Oct 2019 – Jun 2020
<ul style="list-style-type: none">• Tutored electrical and computer engineering students in the honors lower division physics courses• Hosted weekly tutorial review sessions to help with class material and homework assignments	
UCLA Engineering, Sensors and Technology Laboratory Undergraduate Research Intern	Jun 2019 – Mar 2020
<ul style="list-style-type: none">• Research intern at UCLA School of Engineering through the Summer Undergraduate Research Program• Worked on the electroplated magnetic shielding project in the Sensors and Technology Laboratory in the Electrical and Computer Engineering department• Wrote C and Python code to automate measurement of magnetic fields within a shield's geometry• Measured the magnetic field using a magnetometer on a PCB connected with Arduino• Ran simulations in COMSOL Multiphysics to simulate different shield designs and geometries	

Activities and Organizations

HKN, Iota Gamma Chapter	Oct 2019 - present
<ul style="list-style-type: none">• Mentorship chair and active member of the HKN honor society of the IEEE chapter at UCLA• Participate in tutoring and leading review sessions for midterm and final exams• Responsible for communicating with new inductees into HKN	
TBP, California Epsilon Chapter	Apr 2020 – present
<ul style="list-style-type: none">• Member of the TBP engineering honor society chapter at UCLA• Membership extended to the top eighth of UCLA's junior class	
UCLA IEEE	Oct 2018 – present
<ul style="list-style-type: none">• Member of UCLA's Institute of Electrical and Electronics Engineers club• Participating in the Digital Audio Visualizer project, which explores digital logic and FPGA design	

Engineering Projects

SensorTile Gesture Detection	Jun 2019
<ul style="list-style-type: none">• Designed state machine code to detect gestures from accelerometer data of a ST SensorTile• Used digital signal processing techniques including bandpass and anti-aliasing filters• Recognized simple shapes through movement of the sensor on a flat surface	
UCLA IEEE OPS	Oct 2018 – Jun 2019
<ul style="list-style-type: none">• Member of UCLA IEEE Open Project Space• Worked on various introductory projects from circuit design and soldering to a remote controlled car	

Technical Skills & Abilities

Languages and technologies
<ul style="list-style-type: none">• Proficient: C, C++, Python, MATLAB and Octave
Other abilities
<ul style="list-style-type: none">• object-oriented programming, data structures and algorithms, signal processing, probability and statistics, feedback control, machine learning, analog circuit analysis including multimeter and oscilloscope analysis