

Arik Yueh

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Objective: To apply my engineering educational background in an internship and start growing my career experience into hardware engineering.

Education

University of California, Santa Cruz

Santa Cruz, California

Bachelor of Science, Electrical Engineering

2015 - Present

- **GPA:** 3.3
- **Relevant Coursework:** Analog Electronics, Signals and Systems, Logic Design, Computer Networks, Computer Systems and Assembly Language, Computer Systems and C Programming, Python Programming, Multivariable Calculus, Linear Algebra, Electricity and Magnetism, Waves and Optics, Electrical Circuits

Projects

- **Skiatholon** *March 2018*
 - Programmed with verilog on a Basys3 board to create a traditional skiing video game
 - Displayed the VGA output of a 800x525 screen using H-sync, V-sync, and RGB pins
 - Created using purely logic gates and implemented 9 different state machines
 - Constructed every module from scratch including adders, score counters, and anode display
- **Arduino Gamecube Controller Mod** *August 2017*
 - Modified the inputs of a Nintendo Gamecube Controller with an Arduino NANO 3.0
 - Modified existing C/ Arduino code that changed input values for the controller and loaded values to the Arduino
 - Deconstructed and reconstructed controller in order to solder wires to connect the controller inputs to the Arduino
 - Learned how to effectively test, analyze results, and debug the Arduino microcontroller
- **Battle Boats** *May 2017*
 - Recreated licensed board game in C using two Uno 32 kits
 - Used C libraries to configure 32 kits as I/O devices to receive, display, and send guesses
 - Implemented encrypting concepts in code using a Checksums Algorithm
 - Designed as a state machine that handled different conditions and assigned specific states of the game.

Skills

- **Languages:** C++, C, Verilog, Python, Assembly, LaTeX, HTML/CSS, MATLAB
- **Tools and Software:** Arduino, PIC32, Oscilloscope, Raspberry Pi, Unix, Git, Windows

Extracurricular Experience

- **Chinese Student Association** *Santa Cruz, California*
 - *Core Member* *September 2015 - Present*
 - Promoted unity and empowerment among students through recognition of Chinese, and Chinese American cultural aspects