

# Arik Yueh

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**Objective:** To apply my electrical 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:** Computer Systems and Assembly Language, Computer Systems and C Programming, Python Programming, Differential Equations, Linear Algebra, Probability and Statistics for Engineers, Electricity and Magnetism, Waves and Optics, Thermodynamics, Electrical Circuits, Properties of Materials

## Projects

- **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 inputs of the of controller 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
- Learned how to design a game as a state machine that handled many different conditions and changing them to the specific state.

## 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

- **American Red Cross**

San Jose, California

*American Red Cross Counselor*

*February 2014 - July 2014*

- Prepared and organized the Leadership Development Center, a summer program
- Led and mentored as a group leader for high school students in my age group