

Arik Yueh

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Objective: To expand my foundation of computer engineering disciplines and build impactful mentorships amongst professionals in the industry through internship programs.

Employment History

- **Level5Labs** Palo Alto, California
Stereo Vision Intern *June 2018 - August 2018*
 - Analyzed Intel Realsense D415, D435 and Zed stereo cameras test cases and briefed to team
 - Developed tools from camera SDKs such as ground plane detection used for free space detection
 - Built disparity maps and occupancy grids in Linux with OpenCV, and ROS modules on NVIDIA's Jetson TX2
 - Created a pipeline from D400 cameras to implement semantic segmentation from disparity stream

Projects

- **F.R.A.N.C** *September 2018 - June 2019*
 - Built libraries for an Adafruit GPS and IMU in ROS for the Raspberry Pi 3 B+
 - Integrated sensory data onto ROS launch files, this includes the Kinect, GPS, IMU, and lidar
 - Performed SLAM in gazebo and have the bot perform frontier exploration
 - Designed low level state machine handles edge cases concerning battery temperatures, stuck in place, etc.
- **Dual-Channel Oscilloscope** *May 2019 - June 2019*
 - Programmed a dual-channel oscilloscope with the PSoC-5 microcontroller and Raspberry Pi
 - Handles data transfer with USB and I2C and displays both waveforms through OpenVG
 - Takes command-line arguments of various trigger, sample rate, x scale and y scale settings
 - Boasts frequency ranges of 100 to 100kHz and a maximum sample rate of 100k samples/s

Skills

- **Languages:** Verilog, C++, C, Python, Assembly, LaTeX, HTML/CSS, MATLAB
- **Tools and Software:** FPGA, Unix, ROS, Arduino, Raspberry Pi, PSoC-5, Git, ARM Architecture, PIC32, OpenCV, Oscilloscope, Windows

Education

University of California, Santa Cruz

Bachelor of Science, Electrical Engineering

Santa Cruz, California

Sept 2015 - June 2019

- **GPA:** 3.3
- **Relevant Coursework:** Microprocessor System Design, Advanced Renewable Energy Sources, Logic Design, Communication Systems, Introduction to Data Structures, Computer Systems and C Programming, Computer Systems and Assembly Language, Python Programming, Computer Networks, Electrical Circuits, Analog Electronics, Signals and Systems, Electromagnetics, Waves and Optics, Multivariable Calculus, Linear Algebra