Arik Yueh

(408) 458-0811

https://github.com/arikyueh

http://www.arikyueh.com

Arikyueh@gmail.com

https://www.linkedin.com/in/arikyueh

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 - Present*
  - Analyzed Intel Realsense D415, D435 and Zed stereo cameras test cases and briefed to team
  - Devloped 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, Rasperry Pi, PSoC-5, Git, ARM Architecture, PIC32, OpenCV, Oscilloscope, Windows

Education

University of California, Santa Cruz — Santa Cruz, California
Bachelor of Science, Electrical Engineering — *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