JIUNN SIOW

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SUMMARY

Engineer who can get things done in a efficient and methodical way. Experienced in hardware, web development, and internet of things.

EDUCATION

University of California Riverside

2015-2019, Third Year,Bachelor of Science ,Electrical Engineering

EMPLOYMENT

General Atomics Aeronautical

Avionics Software intern — Jun 2017 to Aug 2017

- Wrote a program in C that updates the software of the main flight board of all GA aircraft.
- Worked on test code that also tests all the hardware that is connected to the main flight computer of a GA aircraft. Used Xilinx tools and also uses C.
- Worked on creating CAN protocol that works between different modules on one of the SUAS aircraft.

PROJECTS

Robot See Robot Do. — Apr 2017 to Apr 2017

Connected a humanoid robot to Microsoft's kinect API. Robot would copy movements from the kinect. Used C++ to do this and serial communication.

Smart Mirror — Jan 2017 to Jan 2017

A smart mirror with security and home automation features allows you to control smart objects around your home and monitor it with a security suite built to outlast.Worked on building the Hardware component of the whole project

IOT greenhouse — Jan 2017 to Jan 2017

Created an IOT greenhouse that uses an Raspberry Pi and Arduino. The Arduino would be used for sensors and various automation.Raspberry Pi would be used for automation. In addition there was a web UI that would be used to control automation and display data.Used JavaScript, node, and IBM's internet of things API.

First Person View BattleBots — Oct 2016 to Oct 2016

This project involved taking apart toy monster trucks and rebuilding it so it can have various sensors along with a camera. Then the camera would stream video to a Virtual reality headset and the headset would display health bars. Every time another truck would crash into the current truck, the health bar will go down.Helped out with 3D printing and hardware.

LED Cube — Apr 2016 to Apr 2016

This hardware project linked IBM"s IOT API with an an LED cube that would try to display things like weather and time.Worked with the leap motion and Arduino. Coded in JavaScript , Node, and C.

LED Matrix — Apr 2016 to Apr 2016

Used a Gyroscope to project 3D movement onto an LED matrix. Used an Arduino and C code to do this

SKILLS

SOFTWARE: AutoCad, Autodesk Inventor, Fusion 360, Xilinx Tools(Vivado + Programming)
PROGRAMMING: HTML, Javascript, Python, C++, Java, CSS
HARDWARE: 3D Printing, Arduino, Raspberry Pi, Internet of Things
FRAMEWORKS: Johnny-Five.js

AWARDS

LA Hacks · Top 20 — Apr 2017
SB Hacks · 4th place — Jan 2017
Hack @ UCI 2017 · Best Internet of Things Award — Jan 2017
Citrus Hacks 2016 · 2nd Place and Equipo Vision most Innovative Award — Oct 2016
SB Hacks II · IBM Watson Internet of things Award — Apr 2016
Beach Hacks 2016 · 1st Place — Apr 2016