Jeffrey Hsieh

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Education:

University of California, Riverside
Expected Graduation: June 2017 | Computer Science
GPA: 3.38

High School Diploma
Eleanor Roosevelt High School
August 2009 - June 2013

Technical Skills

Language: English, Mandarin, Taiwanese (fluent in both composition and speech).
Programming Language: C, C++, Python, Bash, Assembly.
Programming Environment: Linux, Cloud9, Vim, emacs, Eclipse (Helios), LaTex, GitHub, BitBucket.
Hardware Development: Arduino, Mbed, Xilinx, Teensy, Atmel, Soldering Techniques.
Designing: PaintTool SAI.

Projects/Experiences

Research: Lead Computer Engineer *September 2015 - Present*

Dr. Kawai Tam, Riverside CA
Leading the research team as the head computer engineer of the Integrated Appliance System (IAS) project. The objective is to design a smart home system with clean solar energy, which provides households with essential resources such as water, air conditioning, and dryers at low cost. This system is programmed in C/C++, with optimizations on home device controls via custom microcontrollers and innovative state machines.

Web Development - Hi I'm Jeffrey! *June 2016 - Present*

Github, https://jhsie007.github.io
Personal website developed in HTML, CSS, Java/Javascript, with inclusions of individual photography resources. Designing my own animations, layout, and css styling, which primarily showcases my project logs, social medias, particular interests, and personal art/designs.

Robotics: Micromouse *November 2014 - April 2016*

IEEE, Riverside CA
Model and program a miniature robot to perform searching tasks relative to maze problems. Utilizing phototransistors to retrieve essential information about the environment and solving a path with modified shortest path algorithms. In addition, individual calibrations ensures the precision of analyzation and mobility of my mouse, hence allowing the mouse to deduce a maze with deterministic decisions.

Embedded Systems: Geographic Mapping *January 2016 - March 2016*

University of California, Riverside CA
Enhancing the functionality my previous robot by adding USART techniques like a modern drone technology. The robot communicates with an external device from long-range, which permits the external device (laptop) to manipulate the data while drawing/visualizing the robot's vision into a real map.

Awards/Presentations

UC Micromouse Competition 3rd Place, UCR *November 2014 - April 2016*
Team IAS Chemical/Environmental Award, EAP *May 2014 - June 2016*
CitrusMedic Concept, Citrus Hack UCR *February 2015*