Hardy Pham

949-529-7777 • hap028@ucsd.edu

github.com/h6pham8 • linkedin.com/in/hardypham

EDUCATION

University of California, San Diego   **March 2017**

Bachelor of Science, Electrical Engineering   La Jolla, California

GPA: 3.23

EXPERIENCE

Shazam   **July 2016 – September 2016**

Software Engineering Intern   San Diego, California

- Using Laravel, I redesigned and reformatted the music submission infrastructure control panel
- Implemented web solutions to service the needs of the music team, saving them hours of work each week
- Developed RESTful APIs to build JSON payloads

PROJECTS

ViaSat Inertial Guidance System (Python)   **October 2016 – December 2016**

- Developed a system that improves the accuracy of ViaSat's residential satellite terminals
- Created a GUI that allows engineers at ViaSat to utilize the LSM6DS3 IMU sensor
- Designed new features such as read/write to registers, logging capabilities, and configurable settings

Trivia Trip (HTML, CSS, JQuery)   **September 2016 – October 2016**

http://TriviaTrip.herokuapp.com

- Built a trivia web app designed to help groups of friends pass time by on long road trips
- Implemented jService API to populate questions and color code them based on difficulty level
- Scaled the interface to be compatible with phones, so users no longer need to zoom in and out

Head Controlled Wheelchair (Matlab)   **September 2015 – December 2015**

- Designed a wheelchair system for quadriplegic users that uses head motions to control the motor
- Programmed a MATLAB script to monitor head movements and utilize a serial interface to communicate with the motor
- Optimized the stability of the motor by increasing the image acquisition rate

Micromouse (C)   **November 2014 – June 2015**

- Collaborated with a team of six individuals to construct an autonomous robotic mouse that utilizes sensor readings and a flood-fill search algorithm to solve a 16x16 maze
- Designed a PID controller that analyzes multiple IR sensor inputs to minimize navigation error
- Assembled the robot with custom 3-D printed wheels and mounting components to allow various elements to smoothly interact with one another

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript, PHP, C, Matlab, Verilog, Java

Tools: Laravel, jQuery, MySQL, Vim, Git, Unix, NodeJS, Express, AJAX, Jira, Crucible

Others: Object Oriented Design, Agile Methodology, Data Structures, Algorithms