Kelvin Ly

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EDUCATION

UNIVERSITY OF CENTRAL FLORIDA

Cummulative GPA: 3.895

BSEE, ELECTRICAL ENGINEERING

Graduating December 2015

Professional Experience

UNIVERSITY OF CENTRAL FLORIDA UNDERGRADUATE RESEARCHER, ORLANDO FL

December 2014 - April 2015

- Worked on RAVEN II medical robot running ROS C++ robotics framework
- Did signal processing in Python in EEG data
- Studied feature extraction and SSVEP frequency detection
- Used emokit Python library to extract signals from Emotiv EEG headset

GOOGLE SOFTWARE ENGINEER INTERN, CHAPEL HILL NC

May 2014 - August 2014

- Worked on benchmarking framework for Skia rendering engine team
- Contributed code in C++, Python, and Go for both internal and open source projects

PERSONAL EXPERIENCE/SKILLS

- UCF Lunar Knights project, electrical/communications teams
 - Helped with wireless communication with Beaglebone Black
 - UART communication with Arduino to send PWM to motor controllers
 - Helped in robot assembly, troubleshooting and debugging
- IEEE-UCF Hardware Team for SouthEastCon, motors team
 - Involved in the design and construction of motors system for competition robot
 - $-\,$ One of the lead programmers programming for the ${\bf Arduino}$ powered robot
- Working on senior design project
 - Hardware system design for all components
 - Research into signal processing for feature extraction with respect to applications in brain-computer interfaces
 - $\,-\,$ Some experience with reverse engineering wheelchair **communication protocols**
- Robotics Club, UCF
 - Worked on Cypress $\bf PSoC$ $\bf chips$ for high performance UART
- Studying asynchronous circuit design, working on 8-bit asynchronous CPU for fun
- Hobbyist experience with eletronics design and reverse engineering, guitar electronics repair
- Fluent in C/C++, Python, Go, Verilog
- Working knowledge of x86/x64/MIPS/MSP430 assembly, Java, LaTeX, bash, MATLAB Kicad EDA Software Suite, Multisim, Xilinx ISE
- GitHub user: https://github.com/cactorium