Kelvin Ly

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EDUCATION

University of Central Florida

BSEE, ELECTRICAL ENGINEERING

Cumulative GPA: 3.895

Graduating December 2015

Professional Experience

IBM EXTREME BLUE INTERN, RTP NC

May 2015 - August 2015

- Worked on zero knowledge encryption for IBM Connections Cloud
- Used JavaScript and Node.js for server backend
- Modified and used existing Java and Python code and libraries for various parts of the project
- Worked on an agile team of four
- Wrote portion of KMIP client library for Node.js
- Heavy emphasis on test coverage and unit testing

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
- Worked on pipeline to collect and process hundreds of megabytes of data daily
- Contributed code in C++, Python, and Go for both internal and open source projects

Leadership

Guitar Club, LESSONS COORDINATOR

Spring 2014

- Coordinated lessons between approximately 20 students and teachers
- Organized biweekly meetings

Tau Beta Pi, Florida Delta chapter, WEBMASTER

Fall 2014 - Spring 2015

• Coordinated induction of 50 members

Eta Kappa Nu, UCF chapter, CORRESPONDING SECRETARY

Spring 2015 - present

• Coordinated engineering talent show showcasing around 10 performers

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 **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 **PSoC 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
- Experience with circuit probing, oscilloscope use, multimeter use, Molex crimping, through hole soldering, transistor amplifier design, linear control system design
- GitHub user: https://github.com/cactorium