Kelvin Ly

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EDUCATION

UNIVERSITY OF CENTRAL FLORIDA	BSEE, ELECTRICAL ENGINEERING
Cummulative GPA: 3.895	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
- Studed **feature extraction** and **SSVEP frequency detection**
- Wrote interface code in **Lua** and **Python** to interact with FlightGear
- 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
- Learned **Go** in a week
- Contributed code in **C++**, **Python**, and **Go** for both internal and open source projects
- Wrote front end logic using **JavaScript**

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**
- Fluent in **C/C++**, **Python**, **Go**
- Working knowledge of **x86/x64/MIPS/MSP430** assembly, **Verilog**, **Java**, **LaTeX**