

Kelvin Ly

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EDUCATION

UNIVERSITY OF CENTRAL FLORIDA

PHD, COMPUTER ENGINEERING

Cummulative GPA: N/A

2016-

UNIVERSITY OF CENTRAL FLORIDA

BS, ELECTRICAL ENGINEERING, MAGNA CUM LAUDE

Cummulative GPA: 3.905

2011-2015

PROFESSIONAL EXPERIENCE

UNIVERSITY OF CENTRAL FLORIDA RESEARCH ASSISTANT

OCTOBER 2015 - PRESENT

- Implemented design in **Verilog** for **NYU CSAW ESC'15**
- Research into **CPS/IoT security**
- Work in **hardening cyber-physical systems**

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

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**
- Contributed code in **C++**, **Python**, and **Go** for both internal and open source projects
- Wrote front end logic using **JavaScript**

PERSONAL EXPERIENCE/SKILLS

- Open source contributor to:
 - Mozilla **Rust** (made AUTHORS list for 1.0 and 1.1 release; contributed error messages and some debugging plugin fixes)
 - hyper (**Rust** server library; contributed TLS support code)
 - PyKMIP (**Python** library; contributed bug fix)
- Fluent in **C/C++**, **Haskell**, **Python**, **Go**, **HTML5**, **Rust**
- Working knowledge of **x86/x64/MIPS/MSP430** assembly, **Verilog**, **Java**, **LaTeX**, **Lua**, **git**, **bash**
- GitHub user: <https://github.com/cactorium>