

# TYLER ALTERIO

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## Education

University of Massachusetts Lowell - Anticipated Graduation Fall 2016  
B.S. Electrical Engineering and B.S. Computer Science  
GPA: 3.4                      Dean's List All Semesters

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## Professional Work Experience

University of Massachusetts • Lowell, MA  
Research Assistant

August 2015 to Present

- Experimented with P4, an open-source domain-specific network description language.
- Develop method to compile P4 behavioral model into CUDA implementation.

Philips Color Kinetics • Burlington, MA  
Firmware Engineer Co-Op

June 2014 to January 2015

- Practical use of Git version control and tools. In addition to Github management.
  - Implemented new features in firmware of PIC based devices with MPLAB IDE.
  - Created command-line utility in Qt framework to interface with fixtures via UDP.
  - Worked with team of 8 software engineers, utilizing Agile Scrum workflow.
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## Skills

### Languages

- *General:* C, C++
- *Object-Oriented:* Java
- *Scripting:* Python, Perl
- *Shell:* Bash, PowerShell
- *Functional:* Clojure
- *Numerical:* MATLAB

### Software

- *Operating Systems:* Windows (up to 10), Linux (Debian-based)
  - *IDEs:* Visual Studio, Qt Creator, IntelliJ, PyCharm
  - *Version Control:* Git
  - *Hardware:* Arduino, Raspberry Pi
  - *Lab Equipment:* Oscilloscope, Multimeter,
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## Relevant Course Work

- Intro to Engineering 2: MATLAB application and use of BASIC STAMP microcontrollers.
  - Computing 4: Adoption of OpenCV computer vision library and Qt libraries for C++.
  - Electronics 1: Application of operational amplifiers, diodes, MOSFETs, and BJTs.
  - Microprocessor System Design: Program design in x86 and PIC assembly.
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