

# TYLER ALTERIO

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## Education

University of Massachusetts Lowell - Anticipated Graduation August 2016

B.S. Electrical Engineering and B.S. Computer Science GPA: 3.491 • *Dean's List All Semesters*

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## Professional Work Experience

University of Massachusetts • Lowell, MA

January 2016 to Present

Computing 2 Grader

- Tutored students in computer science fundamentals and data structures.

University of Massachusetts • Lowell, MA

August 2015 to December 2015

Research Assistant

- 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

June 2014 to January 2015

Firmware Engineer Co-Op

- 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

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

### Software and Tools

- *Operating Systems:* Windows (up to 10), Linux (Debian-based)
  - *IDEs:* Visual Studio, Qt Creator, IntelliJ, PyCharm
  - *Version Control:* Git
  - *Virtualization:* Oracle VirtualBox, VMWare Workstation, Docker
  - *Hardware:* Arduino, Raspberry Pi
  - *Lab Equipment:* Oscilloscope, Multimeter, Soldering Iron
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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++.
  - Microprocessor System Design: Program design in x86 and PIC assembly.
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