

TYLER ALTERIO

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Education

University of Massachusetts Lowell - Summer 2016

B.S. Electrical Engineering and B.S. Computer Science GPA: 3.486 • *Dean's List All Semesters*

Professional Work Experience

Plexxi, Inc. • Nashua, NH

June 2016 to Present

Software Engineer

- Implemented Bidirectional Forwarding Detection protocol in Erlang for agile networking.
- Refactoring of legacy code into OTP (Erlang) applications, using test driven development.
- Development of REST API to access services on switch, using Swagger framework.
- Consulted on fullstack interaction between Python backend and switch services.

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 Intern

- 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 (proficient in):** C, C++, Python, Bash, Erlang
 - **Languages (exposed to):** MATLAB, Clojure, Elixir, Scala
 - **Frameworks:** Swagger (for REST APIs)
 - **Workflows:** Agile, Scrum, Test Driven Development (TDD)
 - **Operating Systems:** Linux (Debian), Mac OS X
 - **Virtualization:** Docker, VMware, VirtualBox
 - **Lab Equipment:** Oscilloscope, Multimeter, Soldering
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