Campbell S. Alden

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Available for Co-op from January – June 2017

EDUCATION

Bachelor of Science in Computer Engineering
Northeastern University, Boston, MA — May 2018
GPA: 3.8/4
Honors: Dean's List — Fall 2013 - Present
Courses: Object Oriented Design, Computer Systems, Fundamentals of Digital Design and Computer Organization, Fundamentals of Engineering Algorithms, Circuits and Signals, Computation and Logic, Fundamentals of Networks, Embedded Design, Probability and Statistics
Activities: IEEE, Japanese Student Association

TECHNICAL SKILLS

Programming:

- Strong Python, Java, C and C++

Computer Applications:

- GitHub, MATLAB, vim, Docker, Virtual Box

PROJECTS

Weather Cube

- Programmed an LED using an Arduino to color an opaque cube.
- Communicated with the cube over Bluetooth using Python script.
- Polled Weather Underground API on a constant time interval and colored the light based on the temperature and conditions.

Podcast Library

- Wrote small library in Python to organize podcasts utilizing RSS library to extract mp3 URIs.
- Cataloged and Downloaded files based on CLI input.
- Played podcast files through calls to RhythmBox.

CO-OP EXPERIENCE

Starry, Boston, MA — January – August 2016
Software Engineering Co-op

- Tested millimeter wave radio technology in both the lab and the field.
- Designed Python scripts to facilitate configuration of the wireless ISP test environment.
- Created system configuration files for a custom Linux kernel.
- Tested radio card throughput limitations.
- Patched radio card wireless driver.

Textron Weapons and Sensor Systems, Wilmington, MA — January – June 2015
Software Engineering Co-op

- Designed messaging emulation GUI using Java to test serial port communication between two boards in a network.
- Probed ports on assembly hardware using an oscilloscope to prove that the boards were functional.
- Learned about Network protocols to extend the functionality of the messaging GUI.
- Redesigned original Java GUI to incorporate the entire assembly's communication over both the serial port and the Ethernet.