Matthew Soucy

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EDUCATION

Rochester Institute of Technology, Rochester, NY *G.P.A. 3.150/4.0*
Bachelor of Science, Computer Science
Minors in ASL & Deaf Cultural Studies and Free and Open Source Software *Graduated December 2015*

TECHNICAL SKILLS

- Strong programming skills in C++, D, and Python
- Working knowledge of CMake, Regular Expressions, C#, C, LaTeX, Java, Haskell, and Javascript
- Familiar with the Git, Mercurial, ClearCase, Subversion, and RCS version control systems
- Background in development for Linux, Windows, and real-time embedded systems (Integrity)

EXPERIENCE

Software Engineer *BAE Systems, Inc., Nashua NH* January 2016 - *ongoing*
Developed and redesigned simulation tools for Electronic Warfare using a real-time embedded system. Developed programs in C++, Python, and Perl to fix and enhance in-house tools for testing and version control enhancement. Work requires a Secret-level security clearance. Intern from 2011-2015.

Captain *FOSS@MAGIC, Rochester Institute of Technology* Fall 2014 - Spring 2015
Student leader for an initiative that promotes open source software development. Coordinated numerous "hackathon" programming events, trips, and demonstrations.

Grader & Student Lab Instructor *Rochester Institute of Technology* Fall 2012 - Winter 2013
Graded assignments and tutored students in beginning Computer Science sequence courses. Wrote a variety of tools to aid in plagiarism detection and grading accuracy and consistency. Instructed and assisted students during laboratory sessions. Administered tutoring hours twice a week.

Software Lead *FIRST Robotics Team 166, Merrimack NH* Fall 2007 - Spring 2011
Led and participated in a team of programmers to develop a program to control the team's robot. Recipient of the Dean's List award at the Granite State Regional in 2011.

RELEVANT PROJECTS

Protocol Buffer Structure Generation Library ("dproto") Fall 2012 - *ongoing*
Serialization library implementing Google's Protocol Buffer syntax. Parses structure definitions at compile time and generates appropriate code to allow interfacing with tools written in other languages. Developed a black box implementation for the D programming language.

Device tracking system ("Mass over Volume") Fall 2013
Raspberry Pi-powered device that utilises Wi-Fi signals to detect peoples' cell phones, working with Rounded and using their product Density as a baseline. A demonstration allowed for the technology to be used to push a notification to a phone, with the suggested goal being to provide a "regular order" system at coffee shops.

ClearCase library (cleartoolscript) Summers 2011-2013
High-level shell wrapper in Python to work with the ClearCase version control system. Contains functionality to programmatically use the most commonly-required tools.

Open-Source Projects
Miscellaneous tools, libraries, and programs are available at http://github.com/msoucy

LEADERSHIP & OTHER ACTIVITIES

- Active member of Computer Science House at the Rochester Institute of Technology.
- Studied American Sign Language and French
- Experience in the performing arts, including theater and music.

References provided upon request