

Matthew Soucy

2433 Nathaniel Rochester Hall , Rochester, NY 14623 , (585) 204-7402
msoucy@csh.rit.edu , *http://msoucy.me/* , *http://linkedin.com/in/msoucy*

EDUCATION

Rochester Institute of Technology, Rochester, NY
Bachelor of Science, Computer Science

G.P.A. 3.050/4.0 (Professional 3.143/4.0)
Expected Graduation Fall 2015

COMPUTER SKILLS

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

EXPERIENCE

Software Intern *BAE Systems, Inc., Nashua NH* 2011-2014 *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 required a Secret-level security clearance.

Grader & Student Lab Instructor *Rochester Institute of Technology* Fall 2012 - Winter 2013
Graded assignments and worked with students for several courses in the beginning Computer Science sequence. Wrote a variety of tools to aid in plagiarism detection and grading accuracy and consistency. Provided instruction and assistance during laboratory sessions. Held 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. Received the Dean's List award at the Granite State Regional in 2011.

RELEVANT PROJECTS

Device tracking system ("Mass over Volume") Fall 2013
Raspberry Pi-powered device that utilises Wi-Fi signals to detect the number of people in an area, derived from and inspired by "Denisty" by Rounded Co, who also helped develop Mass over Volume. A small demonstration allowed for the technology to be used to push a notification to a phone, with the suggested goal being to provide a "usual order" system at coffee shops.

Object-Oriented Binding Library ("Metus") Fall 2012 - Spring 2013, ongoing
Object-oriented bindings to adapt C libraries to idiomatic D libraries. Wraps the ZeroMQ socket library and the ncurses user interface library, and includes a Protocol Buffer serialization library implementation developed from scratch.

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

Open-Source Projects

Miscellaneous tools, libraries, and programs are available on <http://github.com/msoucy>

LEADERSHIP & OTHER ACTIVITIES

- Active member of Computer Science House at the Rochester Institute of Technology.
- Captain in the FOSS Box, an initiative at the Rochester Institute of Technology that promotes open source software development.
- Helps organize and run many hackathon events during the year as a part of the FOSS Box
- Interest in languages (some American Sign Language and French knowledge) and performing arts (theater, music).

References provided upon request