

MATTHEW SOUCY

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TECHNICAL SKILLS

Languages	C++, Python, Java, Bash, Kotlin, Ruby, D, C#, C, Javascript, \LaTeX
Operating Systems	Linux, Windows, Integrity
Tools	Git, Vim, Regular Expressions, Docker, CMake, Gradle

EXPERIENCE

EMPLOYER	BAE Systems, Inc., Nashua NH	January 2016 - <i>ongoing</i>
JOB TITLE	Principal Software Engineer	
	Developed and redesigned simulation tools for Electronic Warfare using a real-time embedded system. Managed Docker images and infrastructure. 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.	
EMPLOYER	FIRST Robotics Team 166, Merrimack NH	Fall 2011 - <i>ongoing</i>
JOB TITLE	Software Mentor	
	Architected robot software design and development process. Maintained reusable code and infrastructure. Taught high school students introductory to moderate Java programming. Former student and recipient of the Dean's List award at the Granite State Regional in 2011.	
EMPLOYER	FOSS@MAGIC, Rochester Institute of Technology	Fall 2014 - Spring 2015
JOB TITLE	Captain	
	Student leader for an initiative that promotes open source software development. Coordinated numerous "hackathon" programming events, trips, and demonstrations.	

EDUCATION

DEGREE	Bachelor of Science in Computer Science
UNIVERSITY	Rochester Institute of Technology, Rochester, NY, USA
GPA	3.150/4.0
PERIOD	January 2011 — December 2015
MINOR	ASL & Deaf Cultural Studies
MINOR	Free and Open Source Software

RELEVANT PROJECTS

PROJECT	Reusable Robotics Software Library ("chopsholib")	Fall 2017 - <i>ongoing</i>
	Software library for reusable components for the FIRST robotics competition. Designed as a compatible extension of the existing ecosystem, with a focus on making common patterns and testing easy.	
PROJECT	Protocol Buffer Structure Generation Library ("dproto")	Fall 2012 - <i>ongoing</i>
	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.	
PROJECT	ClearCase library ("cleartoolscrip")	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.	
PROJECT	Open-Source Projects	
	Miscellaneous tools, libraries, and programs are available at http://github.com/msoucy	

LEADERSHIP & OTHER ACTIVITIES

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