

EDUCATION

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

G.P.A. 3.098/4.0 (Professional 3.433/4.0)
Expected Graduation Spring 2015

COMPUTER SKILLS

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

EXPERIENCE

Software Intern *BAE Systems, Inc., Nashua NH*

Summers 2011, 2012, 2013, Winter 2014

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 *Rochester Institute of Technology*

Fall 2012, 2013

Graded assignments for several courses in the beginning Computer Science sequence. Wrote a variety of tools to aid in plagiarism detection and grading accuracy and consistency.

Student Lab Instructor *Rochester Institute of Technology*

Winter-Spring 2012-2013

Worked with students taking the Computer Science 4 course in C++. 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.

Interpreter ("Oratd")

Winter 2011-2012

Designed a programming language and created an interpreter using D.

OTHER ACTIVITIES

- Active member of Computer Science House at the Rochester Institute of Technology.
- Active in the FOSS Box, an initiative at the Rochester Institute of Technology that promotes open source software development.
- Interest in languages (some American Sign Language and French knowledge) and performing arts (theater, music).

References provided upon request