

COLIN DAVIDSON

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PORTFOLIO

- <http://pentaquine.com>

TECHNICAL SKILLS

- *Programming Languages*: C, C++, Python, Java, JavaScript, Rust
- *Other Languages*: HTML, CSS, POSIX shell, L^AT_EX, Bash
- *Technologies*: Git, Vim, MySQL, Linux kernel (module/driver development)
- *Operating Systems*: Linux, OSX, FreeBSD, Windows

PROFESSIONAL EXPERIENCE

- *Software Development Intern, Siege Technologies, Rome, NY* Summer 2015
Wrote architecture-independent Linux kernel module targeting multiple architectures (x86, ARM, PowerPC), a portable HTML/JavaScript server and GUI.
- *Treasurer, Applied Computer Science Labs* 2014–2015
Managed asset purchase orders and tracking, assessing cost and budget constraints, and technological applications.
- *Core Service Administration, Clarkson Open Source Institute* 2014–2015
Managed lab's network and server infrastructure.
- *Board of Directors, LifeResults, Rochester, NY* 2013–2014
Sat on the Board of Directors for a non-profit organization.
- *Web Development Intern, Kachingle, Inc., Silicon Valley, CA* Summer 2012
Fixed bugs and syntax issues in website backend code using Git and Vim.

AWARDS

- *Part 1 and 2 Winner, IBM - Master The Mainframe*
Worked with REXX and JCL on z/OS, z/VM.

ACTIVITIES

- *FIRST Robotics*
 - Wrote efficient, real-time code in a high-stress environment.
 - Worked with a large team to produce an end product (competition robot).
 - Designed and implemented high-level I2C software interface for a 9-axis sensor and main control board.

OPEN SOURCE

- *Rust Contributions*
 - Cleaned up an old stagnant feature from the Rust beta compiler in preparation for version 1.0 stable
 - Contributed to the big number handling library, adding support for printing large values in hex and octal representations

EDUCATION

- *Clarkson University, Potsdam, NY*
 - Major: Computer Science
 - Concentration: Software Design and Development
 - Enrolled 2014, on academic leave