

Travis M. Whitaker

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OBJECTIVE Seeking a internship/cooperative employment position during June-December 2013 in the field of Chemical Engineering.

EDUCATION *Bachelor of Science*, Chemical Engineering - PGPA 4.0
Rochester Institute of Technology, Rochester, NY, expected graduation: June 2016
Minor: Computer Engineering
Concentration: German Language

SKILLS *Languages & Software:* C, Mathematica, MATLAB, Python, Git, \LaTeX , C++
Operating Systems: Linux(Debian), Gentoo, Scientific Linux, Microsoft Windows.
Hardware: HP/Soltec Oscilloscopes, Tektronix Function Generators, various other chemical/electrical laboratory apparatus.
Labs: General and Analytical Chemistry, Organic Chemistry, Physics.

EXPERIENCE *Researcher/Laboratory Technician* Summer 2011
Applied Electrostatics Laboratory, SUNY Oswego, Oswego, NY

- Design, construction, and maintenance of specialized laboratory apparatus.
- Design, implementation, and analysis of experiments exploring potential applications of electrospray ionization focusing on near-vacuum environments.
- Manufacture of thin-film mirrors in near-vacuum environments for use in associated laboratories.
- Wrote software application in C for the tracking of individual particles to aid the analysis of high-speed footage of clouds of electrostatic particles produced via electrospray ionization.

PROFESSIONAL INTERESTS, HOBBIES, AND PROJECTS

- Digital Signal Processing
- Computer Algebra
- Embedded Systems Programming
- High-End Audio
- Discrete Electronics
- German Culture
- **FermiShell(C)**: Simulate chemical systems via a simple script-based interface
- **RGLHD44780(C/assembly)**: AVR library for serial interface with the Hitachi HD44780 LCD driver

PROFESSIONAL ORGANIZATIONS Computer Science House
American Institute of Chemical Engineering
American Mathematical Society
American Chemical Society
Association of Computing Machinery