

## Travis M. Whitaker

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3241 Nathaniel Rochester Hall, Rochester, NY 14623  
(315) 391-7268 - tmw4661@rit.edu

**OBJECTIVE** Seeking a cooperative employment position during May-August 2013 in the field of Chemical Engineering, and/or Materials Science.

**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, L<sup>A</sup>T<sub>E</sub>X, Arduino-Flavored C++  
*Operating Systems:* Linux(Debian, Gentoo, Scientific Linux, Microsoft Windows).

**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 Python 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 AND HOBBIES**

- Non-consumptive Catalysis
- Electrospray Ionization
- Photolithographic Ion Implantation
- Low-Level Programming
- Digital Signal Processing
- Functional Analysis
- Computer Algebra
- Embedded Systems Programming
- High-End Audio
- Soviet-Era Electronic Test Equipment
- German Culture

**COMMUNITY SERVICE** Served as Youth Representative on the Diocesan Council of the Catholic Diocese of Syracuse.  
Financial Organizer for the 2011 annual Computer Science House Freshman Charity Project.

**EXTRA-CURRICULAR ACTIVITIES** Elected *Youth Representative*, Diocesan Council  
Elected *Financial Organizer*, CSH Freshman Project  
Computer Science House On-Floor Member  
American Institute of Chemical Engineering Member