

Travis M. Whitaker

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OBJECTIVE Seeking a position for the summer of 2012 involving job functions under the purview of Chemical Engineering, and/or Materials Science

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

COMPUTER SKILLS *Languages & Software:* C, Mathematica, MATLAB, Python, Git, L^AT_EX, Arduino-Flavored C++
Operating Systems: Linux, Microsoft Windows.

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

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.

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