

Education **Regis University, Dept. of Chemistry**, Denver, CO B.S. May 2014
Major: Chemistry, ACS Certified
Minor: Physics

Highlands Ranch High School, Littleton, CO Diploma
ACS Scholar Distinction

Research Experience **Regis University**, Department of Physics, Denver, CO *2011 to Present*
Research Advisor: Prof. Fredrick E. Gray

Began research in particle physics, mostly investigating the muon. Researched and developed a spark chamber to be used at Regis University as an outreach project and a visual aid to be used at future physics lectures. Which required sometime working at the Stanford Underground Research Facility (SURF) in South Dakota. Designed and developed a low noise cryogenic preamplifier for the MuSun experiment to be used for electron detection. Research and tests were preformed at Regis University and University of Washington, Seattle. In the summer of 2013, continued work with MuSun at Paul Scherrer Institute in Villigen, Switzerland, testing the x-ray and neutron detectors. Currently working on research and development of updating the alterative detectors for the g-2 experiment at Fermilab in Illinois. Mainly working on replacing photomultiplier tubes (PMTs) with Silicon photomultipliers (SiPMs).

Other Related Work

Experiences **Regis University**, Information Technology Services (ITS), Denver, CO 2010 to Present
Chief Student Technician

Continued to work in the ITS field, gaining experience with computer work, and customer support, on top of the previous four years I've worked in ITS. Continued to work on computer skills such as programing, network management and technical support. This position also allowed me to also hone office management skills, such as interviewing, hiring, and scheduling.

Chemistry Tutor 2009 to Present

Offering educational assistance in high school Chemistry, Advanced Chemistry, and A.P. Chemistry, and in college is the courses of Principles of Chemistry, Organic Chemistry, Physics, Thermodynamics, and Quantum Theory & Spectroscopy. Working as a tutor has both improved my skills in chemistry, as well as improved my skills in education and explaining concepts on a level that is comprehensible to a wide range of students. Many of my students were able to bring their grades from Ds and Fs, to As and Bs.

Other experiences available upon request

Publications &

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Eisen C. Gross

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- Presentations**
- Gross, E. C.; Gray, F. E. Development of Solid State Electronics for a Spark Chamber. Presented at the APS April Meeting 2013, Denver, CO, April 13-16, 2013;
<http://meetings.aps.org/Meeting/APR13/Event/192042>.
- Gross, E. G.; Goston, S. W.; Gubanich, M.; Stroud, J.; Gray, F. E. Design and Development of a Cryogenic Preamplifier for the MuSun Experiment. Poster presented at 2012 Fall Meeting of the APS Division of Nuclear Physics, Newport Beach, California, October 24-27, 2013;
<http://meetings.aps.org/Meeting/DNP12/Session/EA.76>.

Honors & Awards

National Science Foundation - Research for Undergraduates Supplement
Conference Experience for Undergraduates Travel Grant 2012
President of Regis Computer Club – 2012 - 2014
Founder's Award – Boy Scouts of America – Order of the Arrow
Vigil Honor – Boy Scouts of America – Order of the Arrow
Eagle Scout Award – Boy Scouts of America
Glenn A. and Melinda W. Adams National Eagle Scout service project of the year award.
High School Advanced Placement (AP) Scholar.

References

Prof. Fredrick Gray (Ph.D)
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Research Advisor & Professor
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