

Ginger Star Gunnip

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EXPERIENCE

***June 2012-Current: NSF EFRI REM Intern, Biofilm Engineering Laboratory
Syracuse University, Syracuse, New York***

- Acquiring general skills of nanotechnology and biotechnology in a research lab environment.
- Gaining experience writing and editing research papers for publication.
- Designing “Engineering Biofilms” Website using Wordpress/Expressions platform.
- Developing presentation skills for conferences and internal meetings.

***May 2011-August 2011: Biomedical Engineering Intern
Syracuse VAMC (Veterans Association Medical Center)***

- Assisted BMETs (Biomedical Engineering Technicians) with medical equipment maintenance, troubleshooting, repairs, calibration, incoming inspections, and electrical safety on various devices including: Infusion pumps, Spacelabs and Datascope telemetry units, ECG machines, hydraulic chairs, mattress pumps, etc.

***March 2007-December 2009: Soldier, Motor Transport Operator
US Army, Fort Drum, NY, 1-87 INF/1 BCT/10th Mountain Division***

- Honorably served in Al Hawijah, Iraq (FOB McHenry) for 15 months.

***July 2006-December 2006: Research and Development Lab Helper
Blistex, Inc./Aerotek, Oak Brook, IL***

- Assisted chemists with HPLC, melting point, penetration of product, specific gravity analyses, pH, durability of packaging (longevity effects of temperature and usage), and viscometer tests using Rheocalc software.
- Weighed, mixed, poured, and stirred product for testing, inventoried chemicals, organized/cleaned/restocked lab, disposed of hazardous waste, and washed laboratory glassware.

***December 2005-March 2006: Superconducting R.F. Materials Dept. Lab Technician Fermi
National Accelerator Laboratory/Salem Inc., Batavia, IL***

- Performed tensile stress and strain testing of several materials including strings of Nano-carbon using an Instron 4400 and 8500.
- Observed and practiced many safety techniques in the chemistry lab working with buffered chemical polish (hydrofluoric, sulfuric, and nitric acids) used in acid etching.

***June 2002-October 2005: Lab Assistant/Cryogenic Technician/Component Construction
Fermi National Accelerator Laboratory, Batavia, IL***

- Constructed, maintained, and repaired components given a print/wiring diagram.

- Fabrication with 300 series Stainless Steel, Aluminum, Copper, Iron, Steel, Teflon, Ceramics, Plastics, G-10, Unistrut, valves, fittings, piping, and tubing.
- Operated a DuPont Helium Leak Detector, vacuum pumps, lathe, mill, drill press, drop saw, band saw, power tools, hand tools, die grinder, air sander, sandblaster, belt sander, solder gun and torch (brazing), precision instruments including micrometer, caliper, square, center-finder, plum bob, and level.
 - Trained for safety: Oxygen Deficiency Hazard (ODH), Radiation Worker, Cryogenics, Compressed Cylinder, Forklift Operator, Crane Operator, Basic Electrical, Fire Extinguisher, Machine Shop Safety, Back Safety, Emergency Warden, Supervised and Controlled Access, and Sexual Harassment.

***January 1998-June 2001: Restaurant/Gift Shop Employee
Panama City Bay Co. International Airport, Panama City, FL***

- Utilized customer service skills, trained new employees, completed paperwork, payroll, banking transactions, ordering, inventory, banquet prep, etc.

EDUCATION

August 2010- Present: Syracuse University, LC Smith

- B.S. in Bioengineering; minor in Writing and Rhetoric
- Anticipated graduation: Dec. 2013, current GPA: 3.3/4.0
- Dean's List & LC Smith PRIDE circle of honors induction, 2011.

June 2010- August 2010: SUNY Jefferson Community College

- A.E.S. (Associate in Engineering Science), GPA: 4.0/4.0

June 2002- March 2007: College of DuPage, Glen Ellyn, IL

- Worked toward A.E.S., GPA: 3.5/4.0
- Honors Program & Phi Theta Kappa induction, 2003.

August 2001- June 2002: N. Dist. 99 High School, Downers Grove, Illinois

- Diploma, Graduated in top 10% class of 2002, GPA: 4.0

AWARDS/PUBLICATIONS/SKILLS

- 2012 Barnes Family Entrepreneurship Bootcamp for Veterans with Disabilities (EBV) program participant at Syracuse University, July 2012.
- Syracuse Tech Garden, Summer Sandbox Class of 2012.
- Women Inspiring the Spirit of Entrepreneurship (WISE) client.
- LC Smith Invention and Creativity Award recipient—Tension-based prosthetics.
- RVD IDEA Competition Award recipient—Tension-based Prosthetics.
- Startup business plan development: Participated in Syracuse Startup Weekend.
- CARR Conference presenter and author of "Red White and Blue and Orange".
- COMSOL, MATLAB, Microsoft Excel, AutoCAD, LabVIEW.