

Valerie N. Pezzullo

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Education

- *Florida State University, Tallahassee, FL*
 - Mechanical Engineering, GPA: 3.35/4.0 *April 2012*
 - Member of FSU Honors Program
- *Newfield High School, Selden, NY*
 - Graduated with Honors, GPA: 4.2/4.5 *June 2007*

Work and Research Experience

- *Research Assistant – STRIDe Lab (Scansorial and Terrestrial Robotics and Integrated Design Lab), FSU* *August 2011-Present*
 - iSprawl: a biologically inspired hexapedal running robot
- *High Performance Computing Applications Research Experience for Undergraduates Program (HARP) - University of Hawaii at Manoa* *May 2011-August 2011*
 - Experimental and Numerical Study of the Effect of Geometric Parameters on Liquid Single-Phase Pressure Drop in Micro-Scale Pin-Fin Arrays
- *Research Experience for Undergraduates (REU) - National High Magnetic Field Laboratory, Los Alamos National Laboratory* *June 2010-August 2010*
 - Elastic Response of a Superconductor Between 17 K and 340 K by Resonant Ultrasound Spectroscopy (RUS).
- *Campus Energy Events and Training Coordinator - IESES, FSU* *August 2009-April 2010*
 - Planned and organized events for energy and sustainability awareness at FSU with the Institute for Energy Systems, Economics and Sustainability (IESES).
- *Research Assistant - Astrophysics, FSU* *August 2008-April 2009*
 - Type IA Supernovae research involving computational and theoretical methods of analyzing data using FORTRAN.

Organizations

- Historian - American Institute of Aeronautics and Astronautics (AIAA) *August 2011-Present*
- Historian - American Society of Mechanical Engineers (ASME) *September 2010-Present*
- Student Mentor - Women in Math, Science, and Engineering (WIMSE) *August 2008-April 2009*
- Pi Tau Sigma, National Mechanical Engineering Honor Society *December 2010-Present*
- Member - American Institute of Aeronautics and Astronautics (AIAA) *September 2010-Present*
- Member - American Society of Mechanical Engineers (ASME) *August 2009-Present*
- Member - Society of Women Engineers (SWE) *August 2009-Present*
- Member - Women in Math, Science, and Engineering (WIMSE) *August 2007-Present*

Skills

- *Computing experience* - Microsoft Word, Excel, PowerPoint; Linux; FORTRAN; MathCAD; Pro-Engineer; LabVIEW; MATLAB; high performance computing using Hawaii Open Supercomputer (HOSC); OpenFoam (open source CFD software); Adams; C programming; C-based microcontroller
- *Laboratory experience* - soldering; used RUS equipment including RUS transducer setup; used 15T AC superconducting magnet; constructed piezoelectric transducers for RUS experiments; used liquid flow loop for micro-scale pin-fin heat sink experiments
- *Machine shop experience* - milling machine; lathe; drill press; belt sander