

	Intern, Ground Machinery <i>Union Switch and Signal, Batesburg-Leesville, SC</i>	Summer 2002
	<ul style="list-style-type: none"> • Assembled three types of railroad track switch machines and signal transformers • Provided valuable feedback on employee training programs and engineering documentation 	
	Intern, Optical Modules Manufacturing <i>Cisco Systems, West Columbia, SC</i>	Oct 2000 – Apr 2001
	<ul style="list-style-type: none"> • Established proficiency at optical fiber splicing and handling • Constructed three varieties of multiplexing and demultiplexing units 	
TRAINING	University of Florida, Gainesville, FL	Sep 2005 – Present
	Selected Coursework: Advanced Structural Composites, Data Measurement & Analysis, Finite Element Analysis, Principles & Design of MEMS Transducers, Solid State Electronics, Structural Optimization	
	Danish Center for Applied Mathematics and Mechanics, Lyngby, Denmark	Jun 2009
	Topology Optimization Short Course	
	European Comsol Conference, Hannover, Germany	Nov 2008
	Comsol Short Courses on MEMS, Structure-Acoustic Interactions, Custom PDEs	
	Abaqus East, Providence, RI	Mar 2006
	Contact in Abaqus/Standard	
	Abaqus Central, West Lafayette, IN	Dec 2005
	Introduction to Abaqus	
SKILLS	Abaqus, AutoCAD, COMSOL, Drupal, HTML, Maple, MATLAB (including OOP and Optimization Toolbox), Labview, Photoshop, PHP, B&K PULSE, Ultiboard	
SELECTED PUBLICATIONS	M. D. Williams , M. Sheplak, and F. van Keulen. Modeling of Initially Curved Beam Structures for Design of Multistable MEMS. <i>Journal of Applied Mechanics</i> , Accepted with revisions, 2011.	
	B. A. Griffin, M. D. Williams , C. S. Coffman, and M. Sheplak. A MEMS piezoelectric ultrasonic radiator. <i>Journal of Microelectromechanical Systems</i> , In press, 2011.	
	B. A. Griffin, V. Chandrasekaran, M. D. Williams , B. V. Sankar, and M. Sheplak. Model for thermoelastic actuation of an axisymmetric isotropic circular plate via an internal harmonic heat source. <i>International Journal of Solids and Structures</i> , February 2011.	
	M. D. Williams , B. A. Griffin, J. Meloy, and M. Sheplak. A MEMS-Based Piezoelectric Microphone for Aeroacoustic Measurements. In <i>2nd ASA Meeting on Acoustics</i> , Cancun, Mexico, November 2010.	
	M. D. Williams , B. A. Griffin, A. Ecker, J. Meloy, and M. Sheplak. An Aluminum Nitride Piezoelectric Microphone for Aeroacoustics Applications. In <i>Hilton Head 2010: A Solid-State Sensors, Actuators, and Microsystems Workshop</i> , Hilton Head, SC, June 2010.	
HONORS	National	
	<ul style="list-style-type: none"> • National Science Foundation Graduate Research Fellow • Algernon Sydney Sullivan Award • Barry M. Goldwater Scholarship 	2005 – 2008 2005 2004 – 2005
	University of Florida	
	<ul style="list-style-type: none"> • University of Florida Alumni Fellow 	2005 – 2010
	Clemson University	
	<ul style="list-style-type: none"> • Mech. Eng. Dept. Award for Outstanding Scholastic Achievement & Excellence in Eng. • Calhoun Honors College B.C. Inabet Honors Medallion • Faculty Scholarship Award • James H. Sams Award for Top Senior in Mechanical Engineering • Carl Donner Nelson, Jr. Award for Top Junior in Mechanical Engineering • Mechanical Engineering Department Award for Highest Academic Average • Dixon Fellow 	2006 2005 2005 2005 2004 2003 2002 – 2005