

Mark L. Adams
Assistant Professor
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Education

- Ph.D. in Electrical Engineering, California Institute of Technology, 2004
- M.S. in Electrical Engineering, California Institute of Technology, 2000
- Bachelors of Electrical Engineering, Auburn University, 1997

Academic Experience

- Auburn University, Assistant Professor, Electrical and Computer Engineering, 2014-Present, full-time
- University of South Alabama, Assistant Professor, Electrical and Computer Engineering, 2009-2011, full-time
- California Institute of Technology, Graduate Research / Teaching Assistant, Electrical Engineering and Applied Physics, 1999-2003, full-time

Non-Academic experience

- Systems Visions LLC, Founder and Managing Member, Veteran owned small business focused on research, development, engineering, consulting and training specializing in custom solutions for commercial and defense applications. 2007-Present, part-time
- ENSCO, Inc., Director Of Engineering, National Security Solutions Division, Executive focused on strategic growth initiatives for the division including developing relationships with new customers in the knowledge discovery, chem/bio and ISR areas, 2012-2013, full-time
- ATRM, LLC (A Johnson and Johnson Company), Staff Engineer, Principal member responsible for establishing miniaturized device and point-of-care diagnostic areas within the Nanotechnology and Processing group, 2012, full-time
- BioForce Nanosciences, Business Development Manager / MEMS Development Engineer, Directed business development for acquisition of funding and product sales with an emphasis on government relations. Performed design, modeling, fabrication and testing of MEMS and microfluidic components. Performed design, modeling and testing of industrial electronics, 2007-2009, full-time
- ENSCO, Inc., Director of Nano-bioengineering, Strategic Business Development Division, Principal member responsible for creating the Microsystems and Nanotechnology group within the company. Performed business development to provide sustainable income for research and development. Designed and developed a novel miniature buoyant probe for environmental and defense applications, 2004-2007, full-time
- Schlumberger RMS, RF / Electronics Design Engineer, Designed, developed and tested low power ISM band transmitters and receivers as well as antennas for hard-to-read applications. Supported product design and development for remote meter reading systems, 1997-1999, full-time

Certifications or Professional Registration

- N/A

Current Membership in Professional Organizations

- IEEE, member
- ASM, member
- SPIE, member
- AIAA, senior member

Honors and Awards

- National Science Foundation Graduate Student Fellow
- University of South Alabama, ECE Department Teacher of the Year, 2011

Service Activities

Auburn University

- Faculty search committee member

External to Auburn University

- Session chair, IMAPS Device Packaging Conference 2015

Most Important Publications and Presentations (Last 5 years)

- Adams, M. L., Optimized Surface Patterning Tools for Sub-attoliter Volume Fluid Deposition, NSTI Nanotech 2010
- Adams et al., An In Situ Atmospheric Probe for Real Time Weather Monitoring, IMAPS Device Packaging Conference 2015

Recent Professional Development Activities

- New Faculty Scholars Program – Auburn University