

# Matthew Jeffery Woodruff

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## Profile

- Experience:** **Flight Research Laboratory** – Texas A&M University  
Graduate Research Assistant, Dr. William Saric – Advisor  
August 2008 - Present
- Lead Flight Test Engineer on SWIFT (Swept Wing In Flight Testing) Project
  - Lead FTE on Northrop Grumman BLDS Project
  - Lead FTE on Granitize Aviation Xzilon Flight Tests
  - Responsible for overall flight test program – safety, training, experiment scheduling, aircraft airworthiness, data acquisition/reduction
- EAA/EADS Socata International Internship**  
Tarbes, France and Oshkosh, WI  
June 2008 – August 2008
- Travel to France for five weeks to work for Socata
  - Return to Oshkosh to be a counselor for the EAA Air Academy Aviation Camp
- Rapid Prototyping Research** – Milwaukee School of Engineering  
Undergraduate Research Assistant  
September 2005 – May 2007, September 2007 – June 2008
- Designed and fabricated a prototype aluminum casting furnace to study the effects of casting aluminum with different variables
  - Did research and performed experiments with metal matrix composites and an advanced metal casting process that produces castings with detail of less than 1 mm
- ATK Launch Systems Group** – Brigham City, UT  
Summer Intern – Engineering Tools and Analysis  
May 2007 – August 2007
- Created full 3-dimensional model of Space Shuttle RSRM using I-deas
  - Ran finite element analysis on insulation for rocket motor igniter using Abaqus
  - Exposure to FE Analysis using I-deas
- Education:** Master of Science Aerospace Engineering  
Texas A&M University, College Station, TX  
Expected Graduation: **December 2010**
- Bachelor of Science Mechanical Engineering - Minor in Mathematics  
Milwaukee School of Engineering (MSOE), Milwaukee, WI  
Graduation Date: May 24, 2008 – with High Honors  
Cumulative GPA: 3.74/4.00  
Senior Project: SAE Aero Design Competition – Aerodynamics Sub-team
- Organizations:**
- National Intercollegiate Rocket Launch Competition (2007) – 1<sup>st</sup> place
  - Wisconsin Space Grant Consortium Student Rocket Design Competition Participant (2004-2005 – 1<sup>st</sup> place, 2005-2006 – 1<sup>st</sup> place, 2006-2007 – 2<sup>nd</sup> place)
  - Tripoli Rocket Association – High Power Rocketry Level 2 Certified (2006-Present)
  - Student Member AIAA (2008-Present)
  - Student Member SAE (2004-Present)
  - Member of EAA – both local chapter and national membership (2001-Present)
  - Vice-Chair of MSOE Chapter of SAE (2006-2008)
  - Tau Beta Pi – Engineering Honor Society member (2006-Present)