

Matthew T. Grimshaw

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Career Objectives:

To apply modern analysis methods to the design of aircraft structural systems. In the future, to lead a team in the design and testing of innovative aircraft.

Education:

M.S. Mechanical and Aerospace Engineering, GPA 3.5 of 4.0
University of Missouri – Columbia. Anticipated: May, 2007.

B.S. Civil Engineering, Minors: Math, Russian GPA 3.15 of 4.0
University of Missouri – Columbia. Attained: May 2005

Skills and Coursework:

- Classical Mechanics
 - Theory of Elasticity
 - Continuum Mechanics
- Finite Element Analysis
 - Linear and Nonlinear Analysis
 - Theoretical knowledge of the method
 - Experience with ABAQUS and HyperMesh
- Mathematical background is strong
- Communication skills are strong
- Foreign language background (Russian, Spanish, German)

References: Available upon request.

Aviation Experience:

Private Pilot Certificate earned 2003. Currently working toward Instrument rating.

Organization affiliations:

MU Pilots – Founder

Founded as a small group of pilots and aviation enthusiasts in Spring of 2003, MU Pilots is now an officially sanctioned student organization at the University of Missouri.

American Institute of Aeronautics and Astronautics – Student Member

Experience:

- Research Assistant University of Missouri Jan 2006 to Date
 - Finite Element Analysis using ABAQUS and FORTRAN
 - Numerical investigation of material properties of short-fiber polymer composites

- Teaching Assistant University of Missouri Aug 2005 to Date
 - Taught numerical methods in engineering analysis and design using MATLAB to undergraduate engineering students
 - Designed a four-session tutorial introduction to MATLAB

- Engineering Aide City of Columbia May 2000 to Date
 - Worked on a team to install, configure and integrate a computer system to control treatment and distribution of drinking water to a city of 80,000 residents
 - Learned to operate the water treatment plant and received a Water Treatment Plant Operator certification from the state Department of Natural Resources
 - Supported computer users throughout the department
 - Computer application and database development
 - Worked both with engineers and with non-technical staff