Andrew March

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Education

Sep 2006-present **Massachusetts Institute of Technology** Cambridge, MA

- PhD Expected June 2011.
  - Thesis: Convergent Techniques for Multidisciplinary and Multifidelity Optimization.
  - Major: Aircraft Systems Engineering, Minor: Fluid Mechanics.
- S.M., Aeronautics and Astronautics, June 2008.
  - Thesis: Influence of Low-speed Aerodynamic Performance on Airport Community Noise.
  - GPA 4.9/5.0

Aug 2001-Dec 2004 **Cornell University** Ithaca, NY

- B.S., Mechanical Engineering, concentration in Aerospace Engineering.
- GPA: 4.05/4.3; In Major: 4.15/4.3; *summa cum laude*.

Industry Experience

May 2007-Aug 2007 **Boeing Commercial Airplanes** Everett, WA

Advanced Concepts Intern

- Completed design trade study to determine size, layout, and propulsion system for advanced concept airplane.
- Performed multidisciplinary optimization to design and study economics of 150-passenger airplane configurations with different design cruise speeds and engine bypass ratios.

Jan 2005-Aug 2006 **Space Exploration Technologies** El Segundo, CA

Dynamics Engineer

- Responsible for Falcon 9 Launch Vehicle dynamic model, flight loads, and structural modes.
- Updated Falcon 1 Launch Vehicle dynamic model, loads estimates, and modes.
- Designed components, including payload adapters, domes, and composite parts.
- Supervised and trained junior employees and interns.

Summers 2003-2004 **Space Exploration Technologies** El Segundo, CA

Structural Design Intern

- Designed and analyzed structure of launch vehicle components.
- Created dynamic simulations of flight events including separation.
- Conducted mechanical testing, including axial pull testing, weld property testing, pressure vessel buckling tests, and composite thermal expansion tests.

Achievements

- National Science Foundation Graduate Research Fellow.
- 2nd Place, Student Paper Competition AIAA 13th Multidisciplinary Optimization Conference, September 2010.
- 2nd Place, Joseph A. Hartman Student Paper Competition, April 2009.
- Best Paper by a Young Engineer, ASME International Mechanical Engineering Congress and Exposition, November 2005.
- Cornell University McManus Design Award, June 2005.
- Best Student Presentation, AIAA Technical Mini-Conference, October 2004.
- Private Pilot with Airplane Single Engine Land and Instrument ratings.

Membership

- Professional: American Institute of Aeronautics and Astronautics.
- Honor Societies: Tau Beta Pi, Pi Tau Sigma, and Golden Key.