

Alex Stoll

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EDUCATION

Stanford University, Stanford, California

Engineer's Degree in Aeronautics and Astronautics expected March 2011. Advisor: Ilan Kroo.
M.S. in Aeronautics and Astronautics, January 2010. GPA: 3.80/4.00.

Rice University, Houston, Texas

B.S. in Mechanical Engineering, *Cum Laude*, May 2008. GPA: 3.89/4.00. President's Honor Roll, 6 semesters.

The Hong Kong University of Science & Technology, Hong Kong

Exchange in the Mechanical Engineering program, fall 2006. Equivalent GPA: 3.88/4.00. Dean's List.

Texas Tech University, Houston, Texas

Twelve hours of math courses from August 2002 to May 2004. GPA: 4.00/4.00.

EXPERIENCE

Aircraft Aerodynamics and Design Group, Department of Aeronautics & Astronautics, Stanford University

Fall 2009 – Present / Stanford, California

Designing and testing quiet propellers for electric UAVs.

Structure and Materials Group, Blue Origin, LLC

June 2009 – August 2009 / Kent, Washington

Designed and simulated a parachute cover jettison system for the crew capsule and designed, built, and tested an analog of the system. Performed data reduction on the test results to validate the simulation and improve the system.

NASA Advanced Supercomputing Division, NASA Ames Research Center

June 2008 – August 2008 / Mountain View, California

Developed and employed benchmark cases and regression testing tools for the Cart3D CFD package. Implemented improvements in geometry processing in the Cart3D code.

NASA Undergraduate Student Research Program, Dryden Flight Research Center

June 2007 – August 2007 / Edwards, California

Performed systems engineering functions in preparation for flight tests of the Stratospheric Observatory for Infrared Astronomy aircraft, such as modeling a control system in MATLAB, debugging controller software for this system, and creating test and software installation procedures.

SKILLS

Certifications: C-TECH Networking Cabling Specialist, Cisco Certified Networking Associate, CompTIA A+, CompTIA Network+

Computer Skills: Adobe Photoshop and Premiere; C/C++; G Code; GibbsCAM; JavaScript; Linux/Unix; MATLAB; Microsoft Excel, PowerPoint, and Word; OrCAD; PHP; Pro/ENGINEER; SolidWorks; VHDL; (X)HTML/CSS

Language Skills: Conversational German

HONORS AND ACTIVITIES

- 2009 International Society of Transport Aircraft Trading Foundation Scholarship Recipient
- Tau Beta Pi, 2008 – Present
- Student Member, American Institute of Aeronautics and Astronautics, 2007 – Present
- Chairman, American Institute of Aeronautics and Astronautics, Rice University Chapter, 2007 – 2008
- Eagle Scout Award, 2003
- National Merit Scholar, 2003