Logan Halstrom

Department of Mechanical and Aerospace Engineering, One Shields Avenue, Davis, CA 95616 ldhalstrom@ucdavis.edu • (530) 965-0755 • https://github.com/ldhalstrom

University of California, Davis, California USA

EDUCATION

	 Ph.D. Student in Aerospace Engineering Thesis: Dynamic Mesh Applications and Validation for Computational Fluid Dynamics Simulations of Parachutes Adviser: Prof. Stephen Robinson Focus: Computational Fluid Dynamics, dynamics. 	
	 Bachelor of Science (B.S.) in Aerospace Engineering and Mechanical Engineering Graduated with College Honors. 	
EXPERIENCE	Johnson Space Center, National Aeronautics and Space Administration	
	 Pathways Intern, Applied Aeroscience and CFD Branch (EG3) Projects: Dynamic simulations of Orion parachute oscillations Optimization of Orion Flush Air Data System sensor array Transonic stability analysis of RED-Data2 re-entry heating probe Supervisors: Steve Labbe and Ben Kirk 	Jun 2014 – Present
	 USRA Intern, Aircraft Operations Division (CC3) Projects: Designed and conducted pitot-static calibration for WB-57 aircraft Assisted in Reduced Gravity Operations safty inspections Supervisors: Gregory Johnson and Jack Woods 	Jul 2013 – Sep 2013
	University of California, Davis	
	 Teaching Assistant, Department of Mechanical and Aerospace Engineering Courses: Applied Aerodynamics: Compressible/transonic, viscous flow, finite wings, aircraft ed. Computational Aerodynamics: 2D finite difference Euler methods, transonic small-di. Stability and Control of Aerospace Vehicles: State-space representation, longitudinal and Rocket Propulsion: Fluid and thermodynamics of liquid and solid rocket engines Supervisors: Dr. Stephen Robinson, Dr. Jean-Pierre Delplanque, Dr. Ron Hess, and Dr. M. 	sturbance theory and lateral stability
AWARDS & SCHOLARSHIPS	 Outstanding Achievement, NASA Johnson Space Center Office of Education For outstanding contributions as an intern for the Johnson Space Center 	n Aug 2015
	 Service Award, UC Davis Department of Mechanical Engineering For service as the captain of the Advanced Modeling Aeronautics Team 	May 2013
	 Regents' Scholar, University of California The most prestigious award on the UC Davis campus given to students entering with a G 	2011 – 2013 PA higher than 3.80
	 Forrest Mitchell Award, Northern California Scholarship Federation For maintaining the highest GPA of any Junior scholarship recipient 	2012
	 Engineering Dean's List, University of California, Davis For achieving a GPA in the top 16 percent of the College of Engineering 	2011
	 Outstanding Achievement in Physics, Butte Community College For exceptional performance in the field of physics 	2011
	 Presidential Scholar, Humboldt State University For achieving a GPA in the top 15th percentile 	2010
	 Bill Kent Award, Northern California Scholarship Federation For maintaining the highest GPA of any Freshmen scholarship recipient 	2009
PROFESSIONAL	American Institute of Aeronautics and Astronautics, UC Davis Chapter, D	avis, California
AFFILIATIONS & ACTIVITIES	■ Member	2011 – 2014

CAMPUS ACTIVITIES

Advanced Modeling Aeronautics Team, UC Davis

Captain

Sep 2011 – Jun 2013

- Competed in the Society of Automotive Engineers (SAE) 2013 Aero Design West Competition
- Placed 2nd internationally in overall competition
- Designed and manufactured a model aircraft optimized for specific mission requirements
- Managed team members throughout all stages of the design process

SKILLS

Documentation/Presentation

■ L^AT_EX, Beamer, Microsoft Word, Power Point

Computing

• Linux, Python, MATLAB, FORTRAN, C++, High Performance Computing, MPI/OpenMP

Computational Fluid Dynamics

• OVERFLOW, OpenFOAM, Chimera Grid Tools, Pointwise, Tecplot 360/ParaView

LANGUAGES

■ English: Native language

Spanish: Basic (speaking, reading, writing)Russian: Basic (speaking, reading, writing)

INTERESTS

Backpacking, digital photography, running

[CV created on 05-11-2016]