## **Logan Halstrom**

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EDUCATION	<ul><li>University of California, Davis, California USA</li><li>Ph.D. Student in Aerospace Engineering</li></ul>	Sep 2013 – Mar 2018
	<ul> <li>Thesis: Dynamic Mesh Applications and Validation for Computational Fluid Dynamics</li> <li>Adviser: Prof. Stephen Robinson</li> <li>Focus: Computational Fluid Dynamics, dynamics.</li> </ul>	
	<ul> <li>Bachelor of Science (B.S.) in Aerospace Engineering and Mechanical Engine</li> <li>Graduated with College Honors.</li> </ul>	ering Jun 2013
EXPERIENCE	Johnson Space Center, National Aeronautics and Space Administration	
	<ul> <li>Pathways Intern, Applied Aeroscience and CFD Branch (EG3)</li> <li>Projects:</li> <li>Dynamic simulations of Orion parachute oscillations</li> </ul>	Jun 2014 – Present
	<ul> <li>Optimization of Orion Flush Air Data System sensor array</li> <li>Transonic stability analysis of RED-Data2 re-entry heating probe</li> <li>Supervisors: Steve Labbe and Ben Kirk</li> </ul>	
	<ul> <li>USRA Intern, Aircraft Operations Division (CC3)</li> <li>Projects:</li> </ul>	Jul 2013 – Sep 2013
	<ul> <li>Designed and conducted pitot-static calibration for WB-57 aircraft</li> <li>Assisted in Reduced Gravity Operations safety inspections</li> <li>Supervisors: Gregory Johnson and Jack Woods</li> </ul>	
	University of California, Davis	
	■ Teaching Assistant, Department of Mechanical and Aerospace Engineering Sep 2013 – Present Courses:  • Applied Aerodynamics: Compressible/transonic, viscous flow, finite wings, aircraft equilibrium, panel methods  • Computational Aerodynamics: 2D finite difference Euler methods, transonic small-disturbance theory  • Stability and Control of Aerospace Vehicles: State-space representation, longitudinal and lateral stability  • Rocket Propulsion: Fluid and thermodynamics of liquid and solid rocket engines  Supervisors: Dr. Stephen Robinson, Dr. Jean-Pierre Delplanque, Dr. Ron Hess, and Dr. Mohamed Hafez	
AWARDS & SCHOLARSHIPS	<ul> <li>Joseph L. Steger Fellowship, Joseph L. Steger Foundation Fellowship awarded in recognition of outstanding academic record and excellent work in Fluid Dynamics</li> </ul>	$2016-2017 \\$ the area of Computational
	<ul> <li>Outstanding Achievement, NASA Johnson Space Center Office of Education For outstanding contributions as an intern for the Johnson Space Center</li> </ul>	2015
	<ul> <li>Service Award, UC Davis Department of Mechanical Engineering For service as the captain of the Advanced Modeling Aeronautics Team</li> </ul>	2013
	<ul> <li>Regents' Scholar, University of California</li> <li>The most prestigious award on the UC Davis campus given to students entering with a GP</li> </ul>	2011 – 2013 A higher than 3.80
	<ul> <li>Forrest Mitchell Award, Northern California Scholarship Federation</li> <li>For maintaining the highest GPA of any Junior scholarship recipient</li> </ul>	2012
	<ul> <li>Engineering Dean's List, University of California, Davis</li> <li>For achieving a GPA in the top 16 percent of the College of Engineering</li> </ul>	2011
	<ul> <li>Outstanding Achievement in Physics, Butte Community College For exceptional performance in the field of physics</li> </ul>	2011
PROFESSIONAL	American Institute of Aeronautics and Astronautics, UC Davis Chapter, Da	vis, California
AFFILIATIONS	■ Member	2011 – 2014

& ACTIVITIES

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<sup>A</sup>T<sub>E</sub>X, 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, cooking

[CV created on 02-23-2017]