

# JAYSEN MULLIGAN

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## EDUCATION

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University of Central Florida, Orlando	Expected Graduation Date: May 2016
Major: Bachelors of Science in Aerospace Engineering	GPA: 3.22/4.0
Class Standing: Senior	Major GPA: 3.41/4.0

## COURSES COMPLETED

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Solid Mechanics	Aerospace Engineering	Orbital Mechanics
Thermodynamics	Measurements	Space Systems Concepts
Fluid Mechanics	Design of Aerospace Experiments	Structures and Properties of Aerospace
Fundamental of Aerodynamics	Flight Structures	Material
Space Structural Dynamics	Feedback Control	

## PROJECTS

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<b>AIAA-UCF</b>	<b>President</b>	<b>April 2015- Present</b>
AIAA UCF is a very active and project oriented engineering organization with over 210 members. Duties include managing the organizations appointed officers. Planning and executing technical projects, workshops, tours and outreach events. Problem solving and decision making on daily basis.		

<b>AIAA-UCF</b>	<b>Project Leader</b>	<b>Sept. 2013-May 2015</b>
Appointed Officer in AIAA-UCF as the Student Leader for the RC Aviation Design Project. Built a wind tunnel testing apparatus. Main duties include developing a course outline, lectures, bill of materials, promotional material and assure a safe lab environment.		

<b>AIAA-UCF</b>	<b>Team Lead</b>	<b>Sept. 2012- Apr. 2013</b>
Participated as Team Lead for a yearlong aviation design project. Helped in constructing CAD models using Pro-Engineering. Performed aircraft design calculation using Microsoft EXCEL tools. Developed leadership skills.		

## WORK EXPERIENCE

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<b>Propulsion and Energy Research Laboratory</b>	<b>Researcher</b>	<b>Jun. 2015- Present</b>
Working with a team to set up a facility in order to test ramjet and perform research on understanding the physical mechanisms influencing static and dynamic combustion static and dynamic combustion stability to improve development of efficient combustion systems and reduce pollutant emissions.		

<b>MAE UCF</b>	<b>Teaching Assistant</b>	<b>Jan. 2015- May 2015</b>
Assist the Space System Concepts Professor by grading assignments and exams. Answer questions that students may have about the course material.		

<b>Applied Aerodynamics Laboratory</b>	<b>Researcher</b>	<b>Jan. 2013-Aug. 2013</b>
Conducted under Dr. Larry Chew in his AeroLab laboratory at UCF Main Campus. Florida Space Grant Consortium funded research which consisted of building and troubleshooting flight computers that were launched to altitudes of more than 60,000 feet.		

## TECHNICAL SKILLS

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Pro-Engineering	Star-CCM+	Circuitry
SolidWorks	Microsoft Excel	Soldering
LabView	Data acquisition	Matlab

## NON-TECHNICAL SKILLS

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Fluent in Spanish	MS Office
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## HONORS/AWARDS

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AIAA Central Florida Section Student Branch Member of the Year  
UCF Best Event of the Year 2013-2014- Aviation Design  
Dean's List  
Florida Bright Futures Medallion Program  
Five Millers Big Brother Big Sister Continuing Education Program  
The Dave Waud Scholarship