Tiana Menezes

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EDUCATION	
<u>University of California, San Diego – B.S AerospaceStructural Engineerin</u>	ng June 2019
Relevant Coursework:	
Aerospace Structures: Mechanics, Design, and Repair	
Design of Composite Structures	
Solid Mechanics & Mechanical Behavior of Materials	Structural Analysis
WORK EXPERIENCE	
<u>UC San Diego CubeSat Development Program – San Diego, California</u>	July 2018 – June 2019
Affiliated with NASA through the California Space Grant Consortium	
Position: CubeSat Researcher	
 Conducted research in integrated systems for a 1U CubeSat 	
 Launched near-space duration balloon; reached 108,000 fee 	
 Authored a proposal for the NASA CubeSat Launch Initiative Network to support operations for NASA's Lunar Gateway 	to build a Lunar Relay Communications
Network to support operations for NASA's Lunar Outeway	
California Department of General Services - West Sacramento, Californi	ia December 2015 – December 2016
Position: Mechanical Engineering Assistant	
 Designed internal systems (HVAC, Electrical, and Plumbing) 	for state buildings throughout California
 Drafted blueprints and designed AC units on AutoCAD 	
 Conducted on-site inspections to check condition of critical 	components
PROJECTS	
Senior Design Project: Composite Analysis Lead – San Diego, California	January 2019 – June 2019
Wrote MATLAB program to perform failure analysis for a high aspect	ct ratio folding composite wing of a long-rangeUAV
• Determined margin of safety and composite layup for skins and spa	rs for a 9ft wing under strenuous load conditions
Gained hands-on experience with pre-preg carbon fiber, tooling & b	oonding during the fabrication of the wing
ACHIEVEMENTS	
Recipient of the Virgin Galactic Gavin Jones Scholarship – Long Beach, C	California October 2018 – Present
• 1 of 7 UC San Diego students recognized by Virgin Galactic to make	an impact on space exploration
Awarded a cash prize and a year-long mentorship commitment from	n engineers at Virgin Orbit
<u>SMUD 2015 Solar Regatta Winner – Herald, California</u>	August 2014 – May 2015
Lead designer for Cosumnes River College's Engineering Club that b	uilt an 8ft boat powered only by solarenergy
Won 5 awards including Best Design, Best Technical Drivetrain, and	Judge's Choice award
SKILLS & LICENSES	
 <u>Programming</u>: MATLAB, C++, Python 	
<u>Finite Element Analysis</u> : ABAQUS, SOLIDWORKS Simulation	
<u>Computer Aided Design</u> : AutoCAD, Autodesk Inventor, SOLIDWORKS	S 3D, SketchUp
	and a provide a standard second

- Licenses: HAM Radio Technician Class License (FCC Certified), California Boating License
- Hard Skills: Composite Lay-up, Fabrication, Machining, Tooling, Soldering, Bonded Assembly & Repair
- Soft Skills: Problem Solving, Time Management, Leadership, Verbal & Written Communication, Critical Thinking

ROLES & AFFILIATIONS

- SAMPE at UCSD Vice President
- MESA (Math, Engr., Science Achievement) Alumnus
- CA Space Grant Consortium CubeSat Ops Lead
- Society of Women Engineers Member •

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