

## Ethan Tampa

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<b>Education</b>	<b>Bachelor of Science in Mechanical Engineering,</b> The University of Alabama, Tuscaloosa, AL Minors: Aerospace Engineering and Spanish GPA: 4.0/4.0 (6x President's List)	<b>Graduating: Spring 2026</b>
<b>Skills</b>	CAD (SolidWorks, Onshape), FEA Analysis, 3D Printing, Cryogenic Handling, MATLAB, Python, CNC and Manual Machining, Microsoft Office, Seal of Biliteracy in Spanish	
<b>Work Experience</b>	<b>Astronics, AES</b> <i>Mechanical Engineering Intern</i>	<b>June 2024 – August 2024 (Returning Summer 2025)</b>
	<ul style="list-style-type: none"><li>• Led procedure development for contact resistivity data collection for busbar applications. Interacted with technicians and engineers, worked with pressures up to 10KSI, and created a bolt torque call-out verification method as a result.</li><li>• Undertook optimization of additive manufacturing with ULTEM 1010 filament, allowing in-house prototyping and cutting outsourcing costs by 90%.</li><li>• Collaborated with senior engineers and managers to convert solid model drawings to envelope drawings in SolidWorks to preserve proprietary information while promoting customer product communication.</li></ul>	
<b>Project Experience</b>	<b>Alabama Rocketry Association, University of Alabama</b> <i>Testing Lead – Bipropellant Kero-LOX Rocket Project Team</i>	<b>August 2022 – Present</b>
	<ul style="list-style-type: none"><li>• Responsible for managing the testing team, deadlines, tasks, the cryogenic handling team, and heading all high-risk testing operations.</li><li>• Implemented igniter design that will self-eject after self-sustaining combustion.</li><li>• Developed LOX filling procedures and techniques to handle cryogenics safely and to measure the fill rate of a cryogenic liquid on a limited budget.</li><li>• Fabricated a mobile water flow and static fire test stand to safely transport the propulsion/feed system between the laboratory and testing area. Responsible for component placements and structural design.</li><li>• Drove design requirements for a water deluge system and safety protocols according to FAA research for upcoming engine hot fire tests with blast energy equivalent of more than 10 lbs. of TNT.</li><li>• Manufactured three conical graphite nozzles according to design drawings utilizing lathe and bandsaw manual machining.</li></ul>	
<b>Honors and Awards</b>	Presidents List - University of Alabama, National Merit Scholar, Honors College	