Sponsorship Packet







The mission at Caelus Rocketry is to design, build, test, and launch a bipropellant liquid-fueled rocket to the edge of space while also creating opportunities that introduce young kids to the ever-growing aerospace industry and teaching the community about the importance of STEM education in an increasingly technological world. Through our project, we hope to show young people that it's possible to do something that has never been done before and that there is no age threshold to exploring science and pushing technological boundaries.





Our Team

Propulsion

The Propulsion team does the calculations for designing our rocket, runs simulations in softwares like ANSYS and MATLAB, and decides on valves and plumbing systems. They are also in charge of reviewing the safety of our procedures.

Avionics & Software

The Avionics and Software team works on programming our ground station that we use to remotely monitor and actuate our rocket system. They also design the printed circuit board for both the rocket and our test stand.

Structures

The Structures team is responsible for designing and manufacturing the rocket airframe, test stand, and engine support and testing equipment.

Outreach

Our outreach team specializes in community events, communication, and management of the team's finances. Our outreach team's priority is to promote the visibility of our project.

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Partners & Mentors





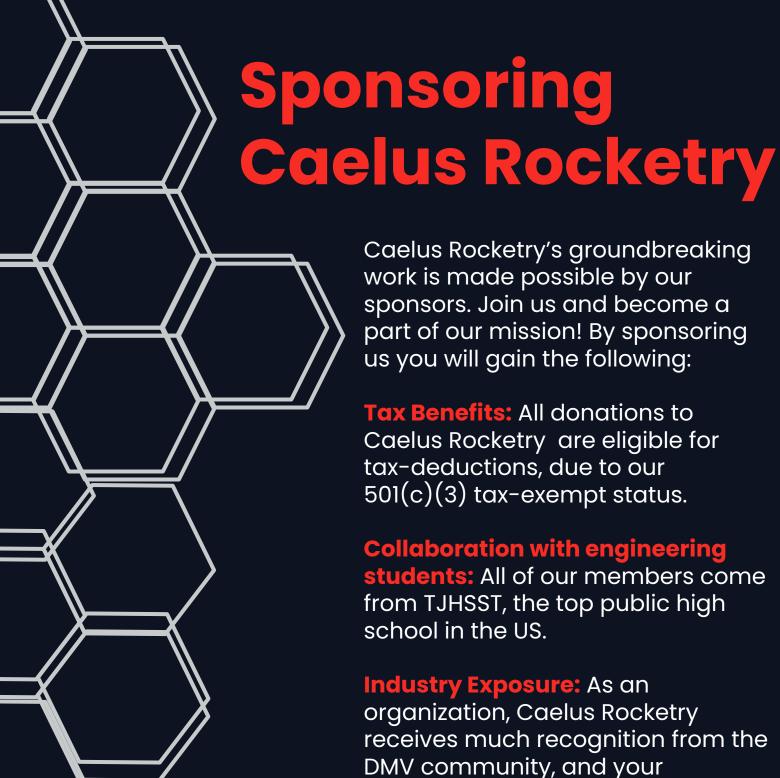






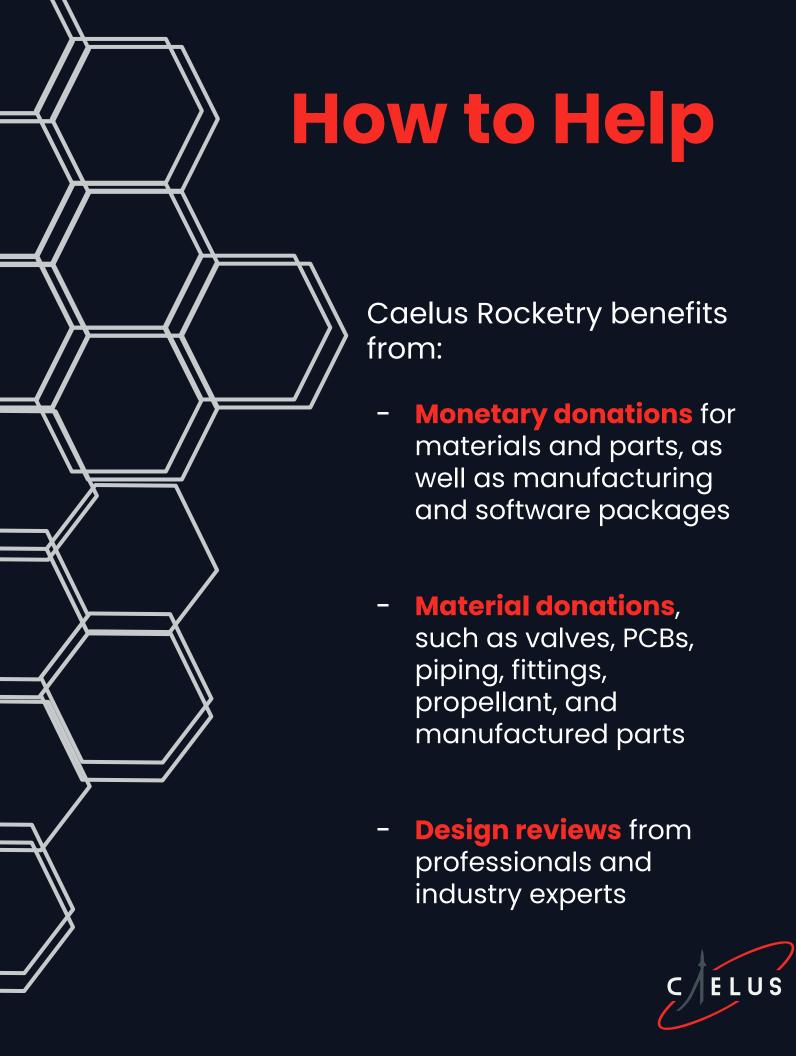






organization, Caelus Rocketry receives much recognition from the DMV community, and your company will receive it with us! We have reached over 10,000 people through events like George Mason University's Space Day.





Sponsorship Tiers

Stratosphere Tier Donations up to \$250*

- Tax Benefits
- Social Media and Content Coverage
- Logo/name on merch and website

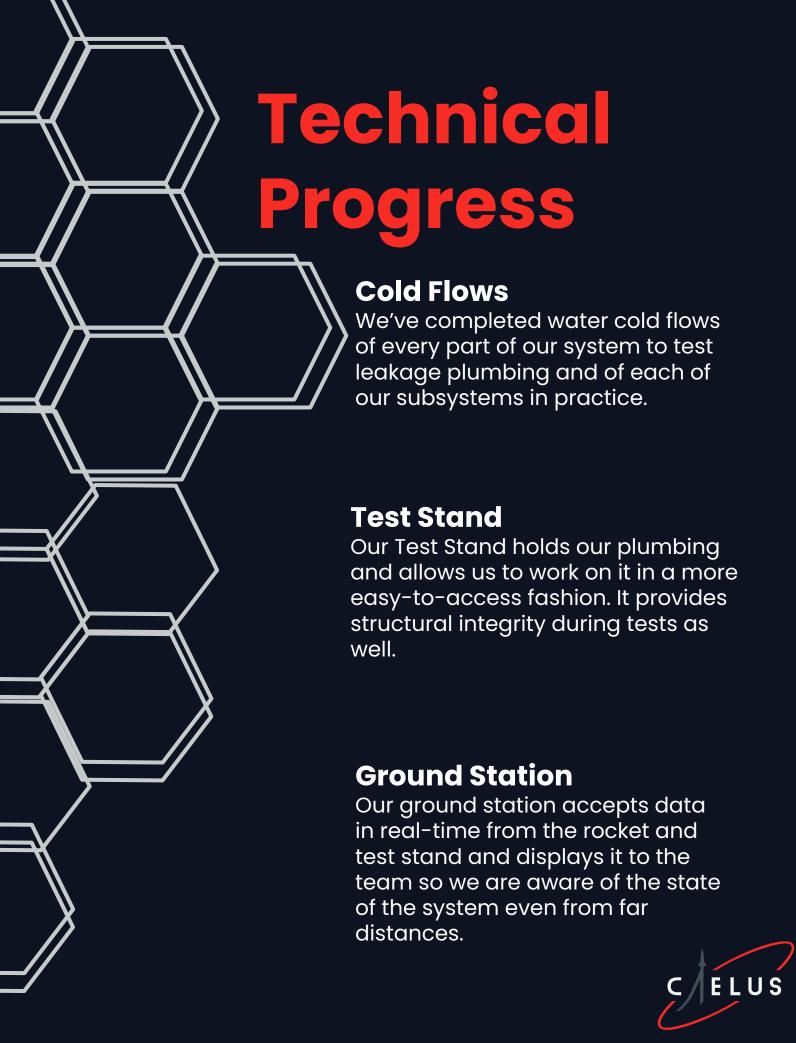
Mesosphere Tier Donations from \$250 to \$1,000*

- Stratosphere Tier Benefits
- Access to member resumes
- Logo on Callisto Rocket

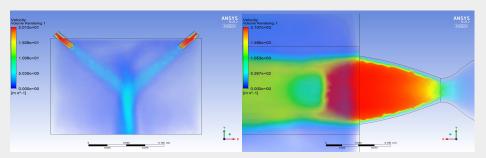
Karman Tier
Donations above \$1,000*

- Mesosphere Tier Benefits
- Invitation to exclusive launch/testing events
- Priority logo placement and branding
- Co-branding of Caelus Rocketry, special statement on website

* Materials of equivalent monetary value are applicable



Technical Progress



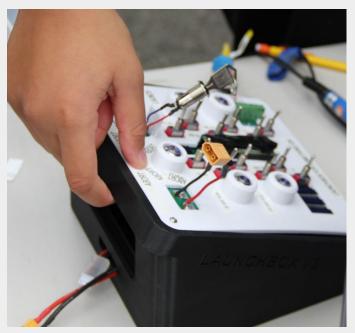
Simulations of our Injector and Nozzle in ANSYS

Our plumbing system off the test stand

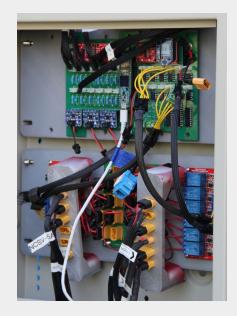




Test stand PCB and one of our members :)



Our launchbox



The Test
Stand PCB
contains all
of our relays,
our Xbee
radio, Teensy,
and other
components

Technical Progress



Our entire test stand, composed of our Test Stand PCB, plumbing system, and our tanks holding propellant

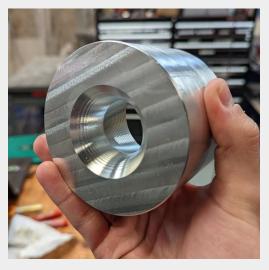


Some of our members with our model of Callisto



Our members assembling our model rocket

Technical Progress



Our nozzle, which welded to our engine chamber



Our machined Injector Manifold



Our injector connected to our test stand



Our engine without the Injector

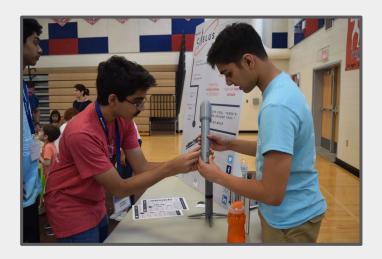


Our combustion chamber



A render of our entire engine with load cells

Our Outreach



By attending a variety of aerospace and STEM events in the DMV area, we've reached over 10,000 people





We have over \$15,000 in net assets, and we have raised our money mostly through running camps







We had a booth at the Astronomy Festival on the National Mall

Our Outreach













We partnered with George Mason University to run the inaugural Space Day and reached 10,000 people as one of the main events, showcasing local aerospace work.





At Caelus Rocketry, safety is our number one priority.

When a high school team aims to build and launch a liquid-fueled rocket, safety becomes paramount. We conduct thorough research, provide comprehensive training, and incorporate safety features into the rocket design. Regular inspections and quality checks are performed, and we always run our procedures and checklists by our partners and mentors. Prior to any test, a detailed safety checklist is followed, and communication with authorities is maintained. By prioritizing safety at every stage, the team demonstrates their commitment to responsible rocketry practices.



Contact Us

We'd love to discuss more with you about sponsorship opportunities. Please contact us at contact@caelusrocketry.org.

Thank you for your interest!



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