UNT Robotics

NASA Student Launch Team

Sponsorship Information (2021-2022)

Changing the world, one student at a time

UNT
COLLEGE OF ENGINEERING

What is UNT Robotics?

UNT Robotics is an engineering organization at the University of North Texas. We are an ambitious student-led organization, with several successful and high-profile robotics projects and competitions under our belt. Our mission is primarily to provide hands on, outside-the-classroom education for students. Our projects are as close to real-world engineering as students can get.

We are not a social and pizza club, we're a fully fledged engineering organization. Our students are given opportunities to work on exceptionally challenging, real world projects solving imporant problems. The robots and rockets that we build cost thousands of dollars and are designed and built from the ground up by the students here. These are highly motivated and skilled individuals who move mountains and challenge what's possible, none of this is ever done alone and we always ensure each team member has an integral role and can rely upon the team and be relied upon when needed.

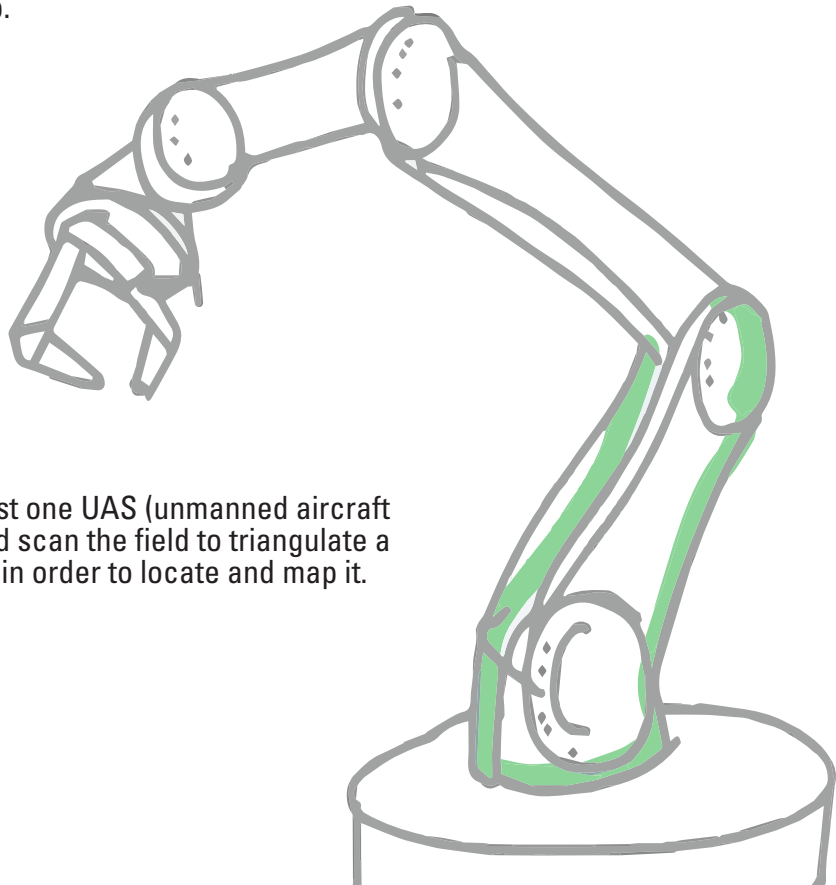
With our next project, the NASA Student Launch Initiative, we take our ambition skyward.

What is NASA SLI?

The NASA Student Launch Initative is an intercollegiate rocketry competition, with an emphasis on research, experimentation and exploration. Teams must produce innovative rockets, rocket propulsion systems, payload delivery systems and payload vehicles to complete challenging tasks set by NASA each year. All while being as cost-effective as possible and completely reusable. The designs must be relevant to real-world ongoing NASA missions, and push the boundaries set by previous competitions.

The NASA SLI competition will help our students and team members apply their knowledge, learn new skills, solve problems, research and develop new technologies and compete at a national level. The competition will further allow us to conduct STEM outreach in the community and inspire and foster the imaginations, creativity, and curiosity of the next generation of scientists and engineers.

Our enthusiasm and love of rocketry and robotics puts us in a perfect position to conduct workshops, competitions and events with local schools, community programs and organizations to bring the same passion we have for STEM to our community. We hope to not only become a highly competitive team, but also to create a legacy for future students to carry on and to inspire the community to get involved. We have a track record of bringing robotics opportunities and long-term programs and outreach in our community, and aerospace is the next opportunity in our grasp.

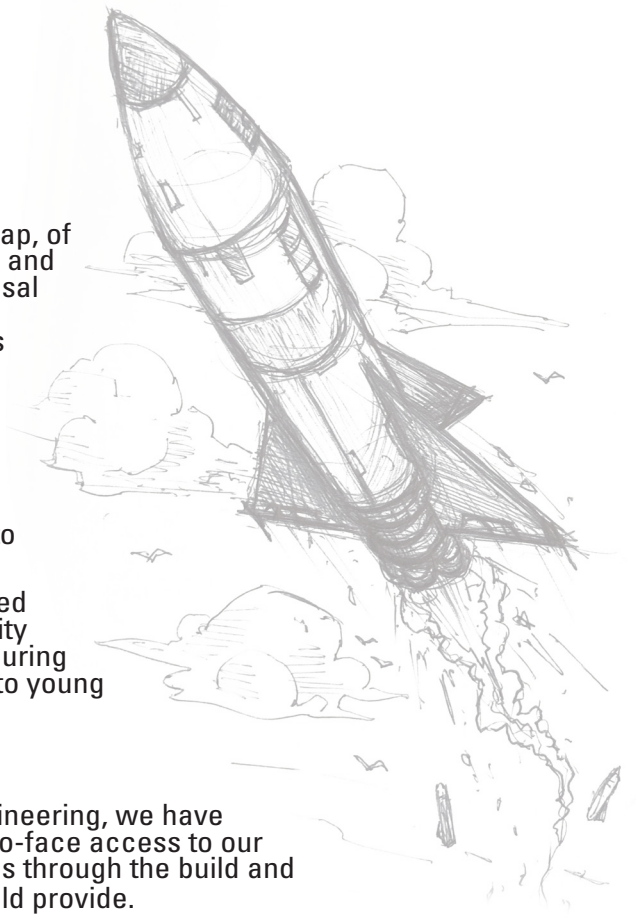


The 2021-2022 NASA SLI Competition

This year's mission is: *teams shall design a payload capable of autonomously locating the launch vehicle upon landing by identifying the launch vehicle's grid position on an aerial image of the launch site without the use of a global positioning system (GPS).*

We have been accepted into the '22 competition. In order to qualify we submitted a full proposal, complete with prelimiary designs for our rocket, payload deployment system, payloads and detailed budget. We are intending to deploy at least one UAS (unmanned aircraft system) at apogee which will autonomously fly and scan the field to triangulate a signal which is broadcast from the launch vehicle in order to locate and map it.

Why sponsor us?



How can you help us?

Financially: Developing innovative space technology is not cheap, of course. It is a NASA requirement for the project to be low-cost, and on a tightly controlled budget which was approved in our proposal and which will be reviewed in two subsequent design reviews. This is our biggest need as we must buy the materials and parts required to build our rocket and payload.

Give a Talk: Share your knowledge and experience and inspire young talent by coming to campus and giving a talk about your company and your industry.

Mentorship: If you're an industry expert or a UNT alumni, we would love for you to get involved as a mentor and contributor to some of our advanced projects.

Volunteer/Outreach: The most exiting and fun way to get involved is to volunteer with us. We have several outreach and community events planned with schools, scouts, and local organizations. During these events we bring fun—hands on—rocketry opportunities to young budding engineers and future leaders.

How can we help you?

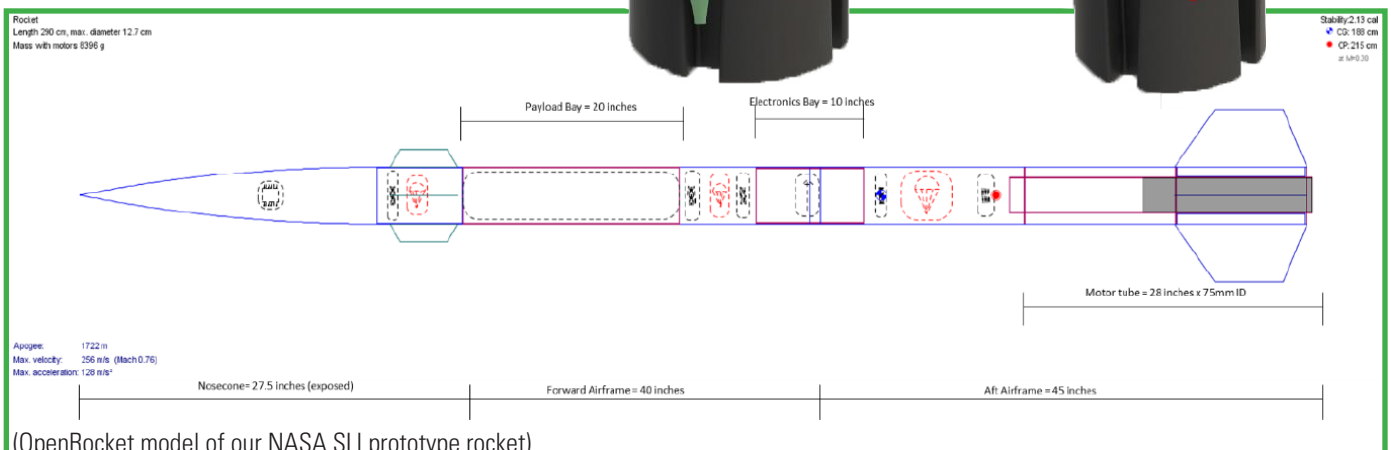
Recruiting: Within UNT Robotics, and more broadly in UNT Engineering, we have some the best and brightest talent to offer the area. Gain face-to-face access to our engineering teams, identify and understand potential candidates through the build and development experience better than a thousand interviews could provide.

Brand Awareness: The best way to bring your brand into the UNT orbit is by sponsoring our creative and ambitious projects, such as the NASA SLI team. We have a long track record of bringing high-profile projects to campus which have raised significant media attention, gone viral on social media, featured on television and featured at in-person events.

Innovation: The NASA SLI competition is a breeding ground for new, innovative technology. One of our key developments for the 2022 competition is a payload deployment system which uses the ejection inertia to deploy folded wings and trigger the UAS flight at altitude.

Community: The STEM community is a community like none other. By building relationships within the area, we are setting ourselves up for the future success of the organisation and robotics and rocketry in North Texas.

Research and Development: A problem you're stuck on might be approached in a whole new light, or solved in way you never knew existed. Our professional mentors help guide us in our development, and the research we undertake is supported by faculty while being thoroughly tested including through several prototype and staging launches.



(OpenRocket model of our NASA SLI prototype rocket)

Sponsorship Levels & Benefits

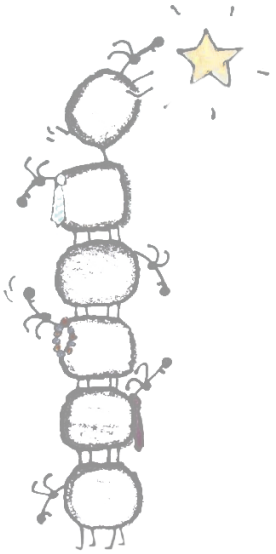
All donations are tax deductible

(tax deductible donations are made through the UNT College of Engineering)

Sponsorship Tiers	Title Sponsor $5,000 (includes first refusal for title sponsorship the following year)	Gold $3,000	Silver $2,000	Bronze $1,000
Sponsorship goody bag *(apparel, stickers, framed team photo, etc.)*	●	●	●	●
	●	●	●	●
Logo and link on website	●	●	●	●
Logo on T-shirts	●	●	●	●
Logo on rockets	●	●	●	○
Social media promotion on @untrobotics and @untaerospace Twitter, Instagram and Facebook and LinkedIn accounts	●	●	●	○
Logo on transport vehicles	●	●	○	○
Access to UNT Robotics resume database	●	●	○	○
Feature in presentations and banners	●	●	○	○
Attend rocket launches	●	●	○	○
Distribute promotional material to all 450 organisation members through email, social media and Discord	●	○	○	○
Company logo/name featured in rocket flight videos	●	○	○	○
Naming rights for launch vehicles and experiments	●	○	○	○

title logo (Title Sponsor) · *large logo* (Gold) · *medium logo* (Silver) · *small logo* (Bronze)

Meet the Team



These are the people who make this project a reality.

We have a core team comprised of expertise from across the spectrum of software, architecture, electrical, mechanical, explosives and materials engineering. Multiple team members hold NAR high-power rocketry certifications and other licences relevant for rocketry, such as FCC Radio Operator licenses.

We support all of our core team members and our adjunct team members in furthering their rocketry and all-round engineering skills as we manufacture personal, competition, and project rockets and payloads. Every core team member is a mentor, and we learn together, work together, succeed together, and fail together.

For us, the sky is **not** the limit.

Adam Hinkel

Ali Hammoud

Ben Baily

Cristobal Morfin

Erik Bravo

Ibi Eni

Jesse Sullivan

Joe Moore

Joe Saeger

Karim Botros

Kessiah Thompson

Lauren Caves

Mishal Raza

Moses Maina

Nick Tindle

Nico Catano

Nischal Aryal

Peyton Thibodeaux

Professor Mark Wasikowski
Team Advisor & Mentor

Quincy Kachete

Sebastian King

Zain Syed

- 21 core team members
- 3 mentors
- 5 different majors

Jack & Suzy Sprague
Team NAR (National Association of Rocketry) Mentors

UNT Robotics
AEROSPACE DIVISION

NASA

Please get in touch for more information regarding sponsorship for UNT Robotics
hello@untrobotics.com

With your support we can reach the stars.

Check out our accepted NASA SLI proposal
untrobotics.com/downloads/nasa-sli-proposal-2022.pdf