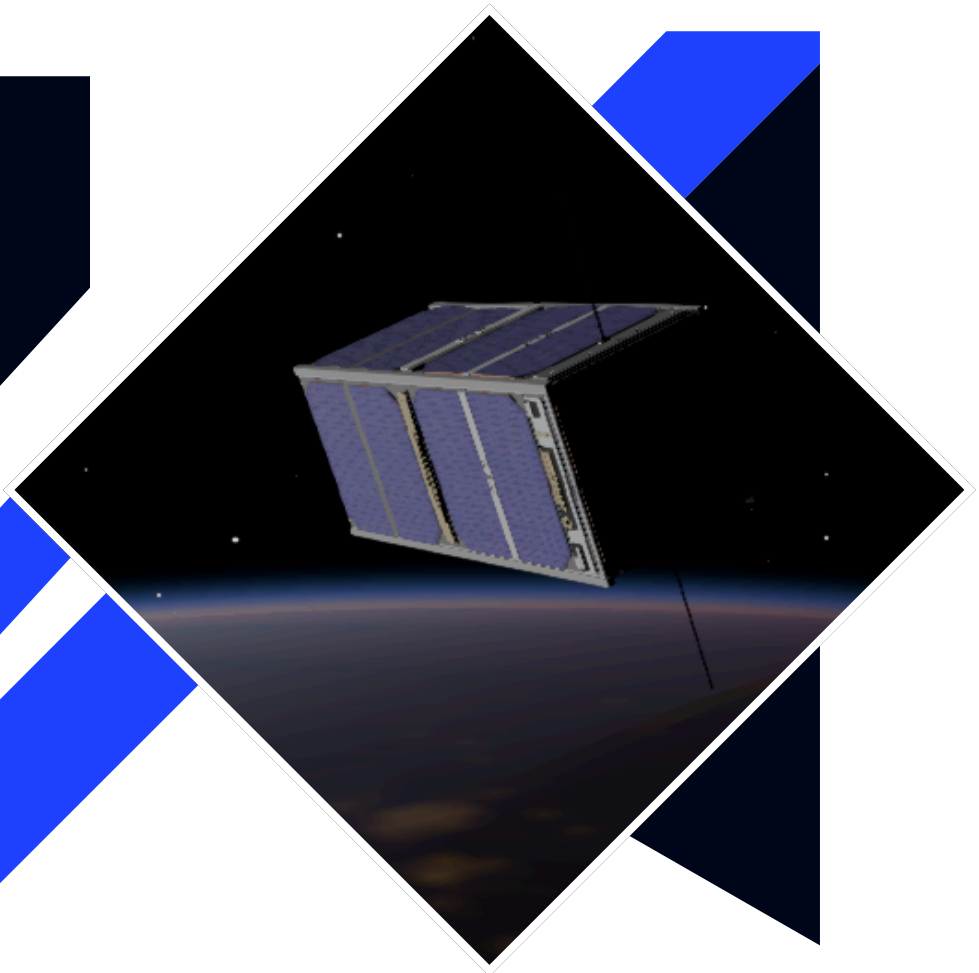
TUFTS CUBESAT

SPONSORSHIP PACKET 2026-2027

Funding the Development of SPACE RACCOON and Enabling the Next Generation of Tufts Engineers



Email:
tufts.seds@gmail.com

Website:
https://tufts-cubesat.vercel.app/

TUFTS CUBESAT

A LETTER TO SPONSORS

Dear Potential Sponsors,

On behalf of the Tufts CubeSat Team, we are excited to present this sponsorship proposal for your consideration! We are a passionate and highly motivated team of Tufts University student engineers building SPACE RACCOON, a 2U CubeSat that will use onboard computer vision and machine learning to detect, classify, and assess the collision risk of space debris in Low Earth Orbit. When it reaches orbit, it will be the first satellite ever built at Tufts. We are inviting forward-looking organizations like yours to support our journey toward launch and our efforts to grow the space engineering community at Tufts.

Sponsorship with the Tufts CubeSat Team will give your organization a unique opportunity to reach a talented pool of creative problem solvers, innovators, and well-rounded engineers working across mechanical design, embedded software, power electronics, and RF communications. We hope to find a sponsorship plan that fits your company's goals and budget, and we look forward to working with you.

Sincerely,

William Goldman
Project Lead, Tufts CubeSat

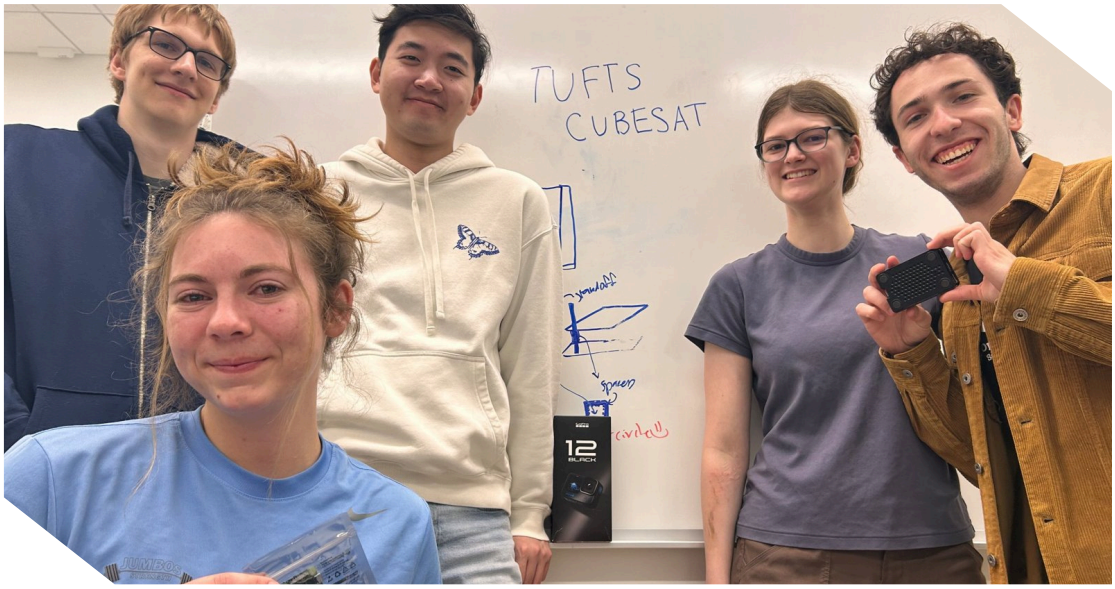
Natalie Germanov
Project Lead, Tufts CubeSat

TUFTS CUBESAT

TEAM OVERVIEW

The Tufts CubeSat Team is a student-led engineering team under Tufts SEDS dedicated to the design, manufacturing, and testing of SPACE RACCOON, Tufts' first satellite. Students from diverse academic backgrounds collaborate across five subteams to solve multidisciplinary, real-world engineering challenges, gaining hands-on experience in CAD, PCB design, flight software, and RF systems. Our emphasis on technical rigor, collaboration, and student ownership prepares members for careers in aerospace and engineering, and we work alongside collaborators at MIT and UMass Lowell.

Structures	Chassis design, thermal and vibration analysis, and orbital mechanics.
Software	Image processing, flight software, and onboard debris detection.
Power	Collecting sunlight and keeping every subsystem alive through eclipse.
Comms	The radio link between SPACE RACCOON and a student-built ground station.
Weather Balloon New	Near-space flights to about 100,000 ft that test electronics and comms before the CubeSat flies.



TEAM HIGHLIGHTS

2U — CubeSat built entirely by students

25+ — Members across five subteams

1st — Satellite ever built at Tufts

Where our members and alumni work

Medtronic | Draper | NVIDIA | Blue Origin | Takeda | MITRE | Amazon Robotics

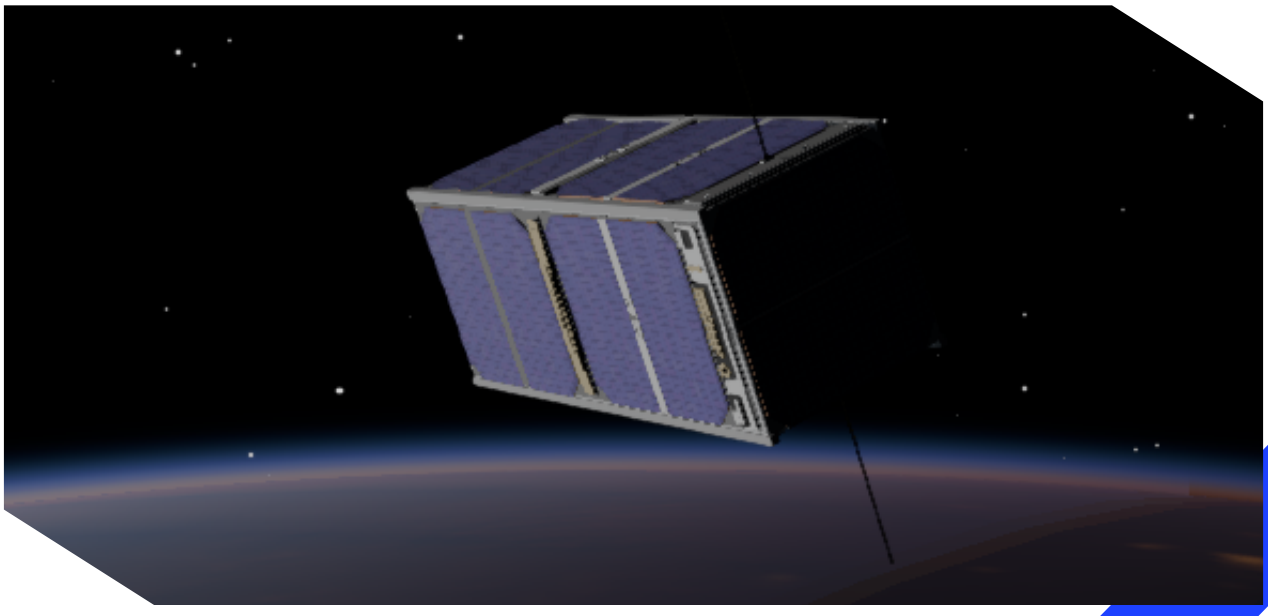
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THE MISSION
SPACE RACCOON

SPACE RACCOON is a 2U CubeSat that will detect, classify, and assess the risk of collisions with space debris in Low Earth Orbit using onboard computer vision and machine learning. As part of this effort, the mission will provide open-source, high-fidelity data on debris location and size to support safer orbital operations and future mission planning.

After two to three years of design and testing on campus, SPACE RACCOON will be deployed into Low Earth Orbit for a 14-month mission, running on body-mounted solar cells and holding its attitude with in-house reaction wheels.

2U	LEO	14 mo	2029
Form factor	Low Earth Orbit	Mission duration	Target launch

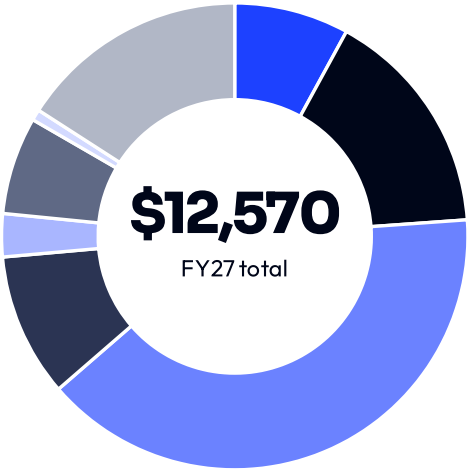


2026–2027
MILESTONES

SEPTEMBER	Avionics board complete
OCTOBER	Image processing software complete Avionics board tested
NOVEMBER	Structure design prototype manufactured
DECEMBER	ADCS board design complete
FEBRUARY	Flight software complete Reaction wheel manufacturing complete
2029	Target launch

TUFTS CUBESAT

BUDGET FY27



Structure & Chassis	$1,000
Power System	$2,000
Comms & Ground Station	$5,000
ADCS & Reaction Wheels	$1,250
Flight Computer & Avionics	$375
Vision Payload	$850
Testing & Analytics	$95
Weather Balloon	$2,000
Total	**$12,570**

*Budget estimates are based on current component and fabrication pricing and are subject to change.

TUFTS CUBESAT

SPONSORSHIP PACKAGES

Platinum Sponsor ..... $10,000+

- Your products integrated into SPACE RACCOON, with a published use case on how we used the technology
- Student sessions built around your technology
- Gold Benefits

Gold Sponsor ..... $5,000+

- Logo on our weather balloon
- Blog post featuring your technology and our work with it
- Silver Benefits

Silver Sponsor ..... $1,000+

- Logo on the Tufts CubeSat website
- Bronze Benefits

Bronze Sponsor ..... $100+

- Recognition in team presentations
- Invitation to team events

Custom Sponsorship Packages

We understand that the above options may not fully satisfy your objectives, and we are open to developing sponsorship packages tailored specifically to your needs, including in-kind donations of components, software licenses, and test facility access.

TUFTS CUBESAT

CONTACT INFORMATION

Email: tufts.seds@gmail.com

Website: tufts-cubesat.vercel.app

GitHub: github.com/Tufts-CubeSat

LinkedIn: linkedin.com/company/tufts-seds/

Instagram: @tufts.seds

YouTube: youtube.com/@TuftsSEDS

Location: Halligan Hall, Tufts University

Thank you for considering a partnership with the Tufts CubeSat Team. We would love to talk about how your organization can help put Tufts' first satellite in orbit.