



**WATERLOO
ROCKETRY**

SPONSORSHIP PACKAGE



www.waterloorocketry.com

UNIVERSITY OF
WATERLOO



ABOUT US

We are a group of young minds passionate about self-developed rocket technology.

Waterloo Rocketry is a team of undergraduate students who represent the University of Waterloo in Canada. We design, build, and test our own rockets and all of the necessary ground support equipment as well as develop all operations necessary to achieve launch. The team competes annually at the Spaceport America Cup. Our team provides students the opportunity to solve real engineering problems, giving them a unique and exciting way to develop skills in a hands-on setting.



OUR HISTORY



2011 – WRT 1

Hybrid propulsion. Successful liftoff.
Our first rocket.

2012 – Eridani

Liquid bi-propellant. 200 pounds. 20 feet long.



2013 – Silver Brant

Hybrid propulsion. Monocoque construction.
Polished aluminum.

2014 – Vidar

Hybrid propulsion. Custom check valve.
400 pounds of thrust.



2015 – Vidar II

Hybrid propulsion. Custom pyrotechnic valve.
Recovery system upgrade.

2016 – Vidar III

Hybrid propulsion. Backflow countermeasures.
New avionics module.



2017 – VIDAR III



After many years of development, testing, and redesign, 2017 marked the first time a rocket was successfully launched and recovered by our team. Not only did the team win the Jim Furfaro Award for Technical Excellence, but our flight of a new and improved Vidar III achieved first place in the 10,000 foot apogee SRAD category for liquid/hybrid engines at the inaugural Spaceport America Cup. With such an incredible result, the team can't wait to build something even better.



VIDAR III

Vidar III is the result of multiple years of design, testing, and methodical iteration. Featuring a revamped ignition system and an innovative new two-phase injector plate, Vidar III is much more reliable than previous iterations. The upgraded functional payload module includes an accelerometer, gyroscope, and GoPro camera to capture in-flight data. Vidar III can be filled and launched from a distance of 3000 ft.

Specifications:

Wet Mass	63.1 lb
Peak Thrust	300 lbf
Total Impulse	834 lbf • s
Oxidizer	Nitrous oxide (N_2O)
Fuel	HTPB with 10% aluminum
Size	10.7 foot length 4 inch diameter
Payload	9.1 lb deadweight, gyroscope, accelerometer, GoPro



WHY SPONSOR US?

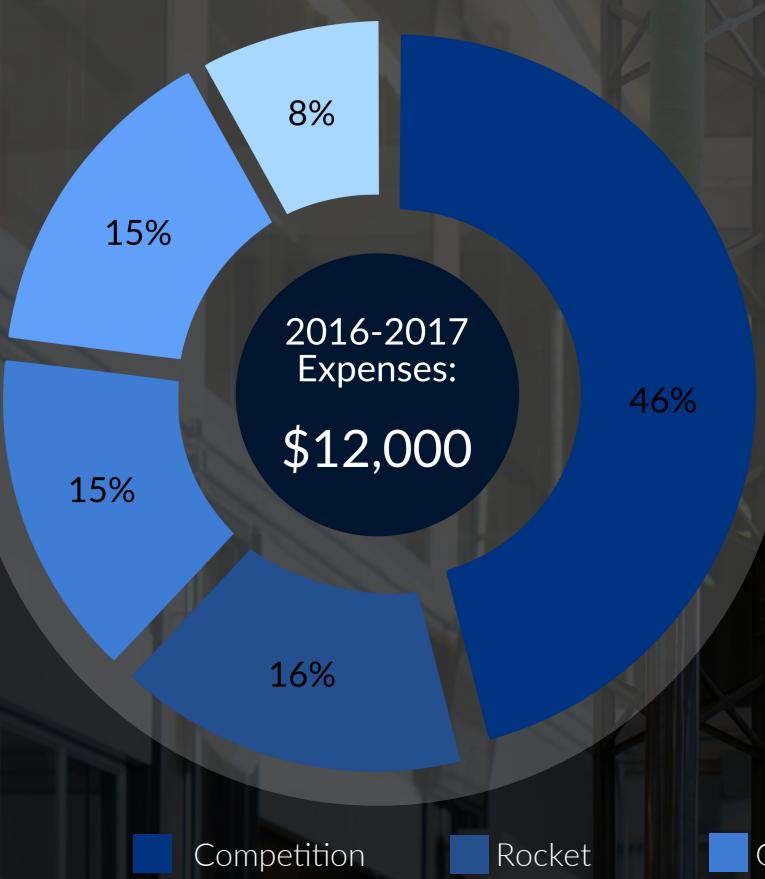
A photograph showing several students in winter clothing working on a large cylindrical metal structure, likely a rocket engine test stand. One student is standing on top of the cylinder, while others are around it, adjusting equipment and cables. The scene is outdoors with a clear sky.

Our team attracts highly driven problem-solvers who are capable of learning quickly, working diligently, and delivering reliably. Your organization can gain exposure to some of the most promising students that Waterloo Engineering has to offer.

As demonstrated recently at the inaugural Spaceport America Cup, our team has the potential to win. With success comes exposure, and we always represent our sponsors with great pride.

In sponsoring us, you will allow us to reach greater heights and set higher goals for ourselves and for the team. You will be supporting a motivated group of students and the next generation of engineers.

TEAM SPENDING



This is a summary of the team's expenses in the 2016-2017 fiscal year. Competition costs include fees and University sponsored travel expenses. Each member who attends competition pays roughly \$500 out of pocket in addition to the costs shown.

Rocket expenses consist largely of onboard electronics, payload, and our propulsion system. Ground Support Equipment consists of our critical launch controls and infrastructure. Our testing expenses consist of data acquisition and testing equipment used to conduct system tests in Waterloo. Logistical expenses include administrative costs, as well as outreach efforts and safety equipment.

Competition Rocket GSE Testing Logistics

These tiers are rolling and cumulative over two years. Unrenewed sponsorships will be listed as "previous sponsor" with a logo on the team web page.

	Bronze \$0-\$2499	Silver \$2500-\$4999	Gold \$5000-\$7499	Platinum \$7500+
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Logo and link on the sponsorship page	✓	✓	✓	✓
Logo on banner displayed at IREC	Small	Medium	Medium	Large
Logo in team presentation at IREC	✓	✓	✓	✓
Logo on all team videos	✓	✓	✓	✓
Description on the sponsorship page			Short	Long



FINAL WORDS

From all of us at Waterloo Rocketry,

Thank you for taking the time to review this package. Through this team and the support of our sponsors, our team members have been able to learn and develop countless valuable skills, and we know that there is still so much more to explore.

We hope that you will consider supporting our mission to inspire the next generation of engineers, through the application of rocketry at the University of Waterloo.

We greatly appreciate your consideration and we hope that you will be part of our success.

Contact Information:

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www.waterloorocketry.com
University of Waterloo

The University of Waterloo is consistently ranked as the most innovative university in Canada. To learn more, visit the following link:
www.uwaterloo.ca





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