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Maseeh College of Engineering
and Computer Science

PSAS is a student aerospace project building ultra-low-cost, open source rockets. We build and fly some of the most advanced amateur avionics systems on the planet.



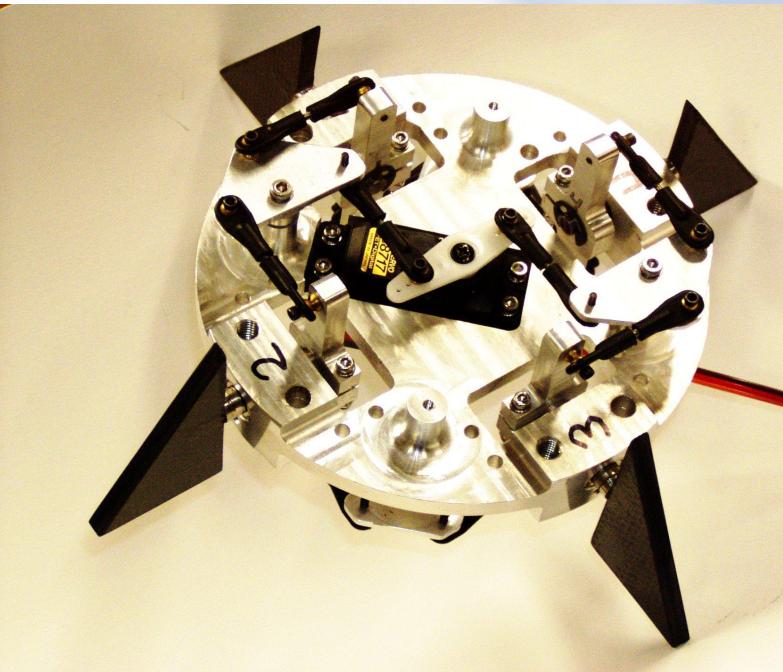
Maseeh College of Engineering
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Who We Are

We are a team of students, alumni, and local community members who have a love for learning through difficult, hands-on, cross-disciplinary engineering projects. Over the last decade we have been designing and building world class experimental rockets.

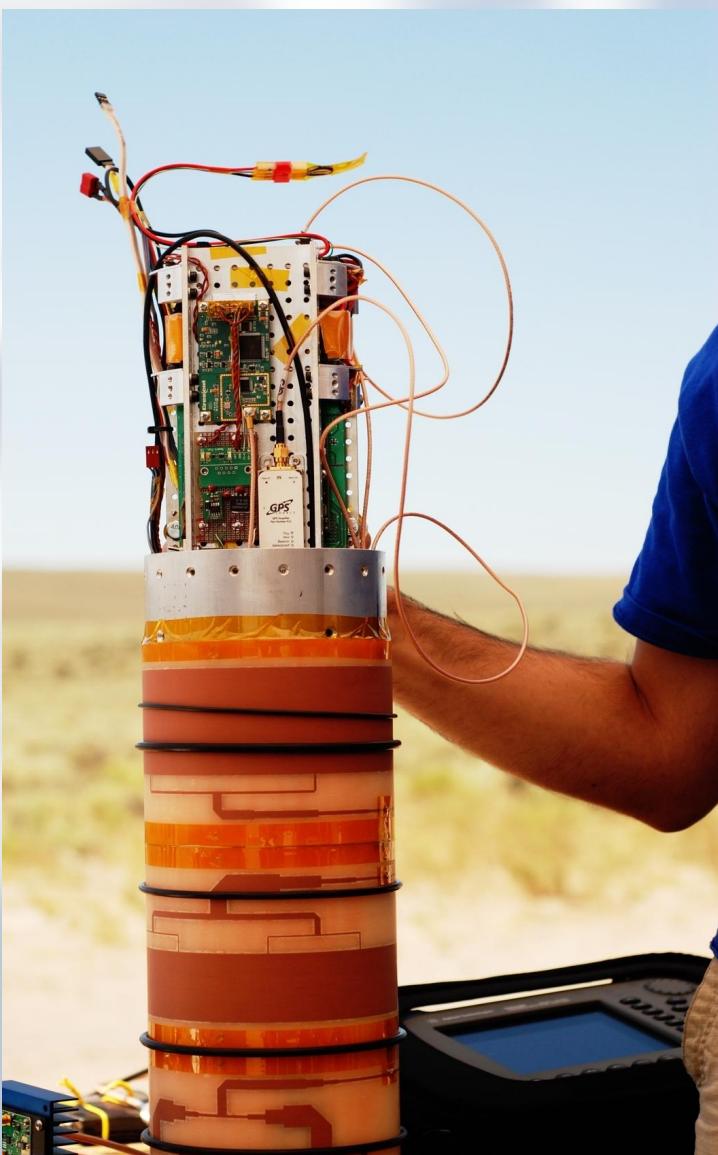
We are dedicated to an open approach to engineering — sharing what we learn with the larger educational and amateur rocket community.



Accomplishments

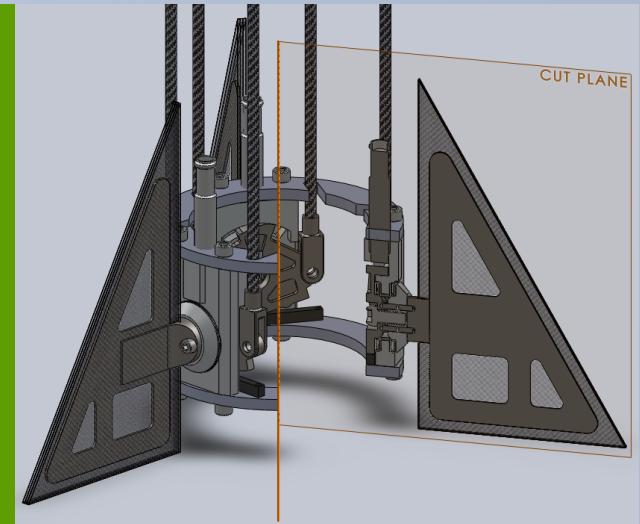
Over the years we've had many notable successes:

- First group to push Wi-Fi technology past Mach 1
- First to fly real-time Linux in amateur rockets
- One of the very few amateur teams to develop a successful roll control system
- Created ultra-cheap linearly polarized cylindrical patch antennas that are now being used by other amateur rocketry teams
- Developed a new recovery system that has 100% success rate so far
- Implemented rigorous safety systems and protocols, like our wireless launch control system
- Created and documented many garage manufacturing techniques for aerospace components



What We Do

PSAS builds and launches rockets. We focus on small, ongoing projects that move us toward our long-term goal: building a rocket that can achieve orbit. These projects involve all aspects of aerospace engineering, from software and embedded systems development to electrical and mechanical engineering. We do everything ourselves, from simulation and data analysis to controls engineering and communication system design.



Big Impact

Our student members gain invaluable cross-discipline and systems-level experience working alongside industry mentors and PSU staff, giving them an exceptional head start on their future pursuits.

Our community members get to work with the next generation of engineers on one of the most advanced and exciting aerospace projects in Oregon.

In a broader scope, PSAS open source technology and processes have made remarkable contributions to the international amateur rocketry community.



Join us!

We are actively seeking students, alumni and community members to join us in our engineering efforts. PSAS is one of the most exciting learning experiences available in Oregon, and we want you to be a part of it!

We are also seeking funding for our educational non-profit team. Your donations will take us to space!

