PSP Solids

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Dedicated to lead in the Spaceport America Cup

Overview

PSP Solids is a team dedicated to the manufacturing and flight of a solid-fueled rocket at the Spaceport America Cup every year in New Mexico. For the year and a half, the team has worked on developing, mixing, and casting its own solid propellant rocket motor for use on our 2021 rocket, which will fly to 30,000 feet at a future Spaceport Cup in the "Student Research and Developed" (SRAD) category.

In addition to the motor, the rocket, which is fully designed and built by members of our student team, will carry a remotely controlled drone that will deploy after the rocket has reached apogee and is on its descent. The drone is designed in such a way that it is extremely stable at its operating speeds, which will allow remote control to be established by the ground team to ensure a successful recovery.

Breakdown

PSP Solids has five subteams that you can be a part of:

- **Avionics**, developing their own in-flight computer for recovery deployment and telemetry.
- **Documentation**, managing the reports and publications required for the Spaceport America Cup.
- **Payload**, developing the remotely controlled drone that will deploy at apogee.
- **Propulsion**, developing its own solid propellant motor, working with advisors from Zucrow Laboratories.
- **Structures**, encompassing the design and integration of vehicle components.

AT A GLANCE

- Started in 2017
- Participates in Spaceport America Cup
- Competes under the "Student Research and Developed" category
- Develops its own solid propellant motor and RC drone payload
- Travels to Spaceport America in NM every June

CONTACT

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