

PENN AEROSPACE CLUB

2020

Sponsorship Package



WHO



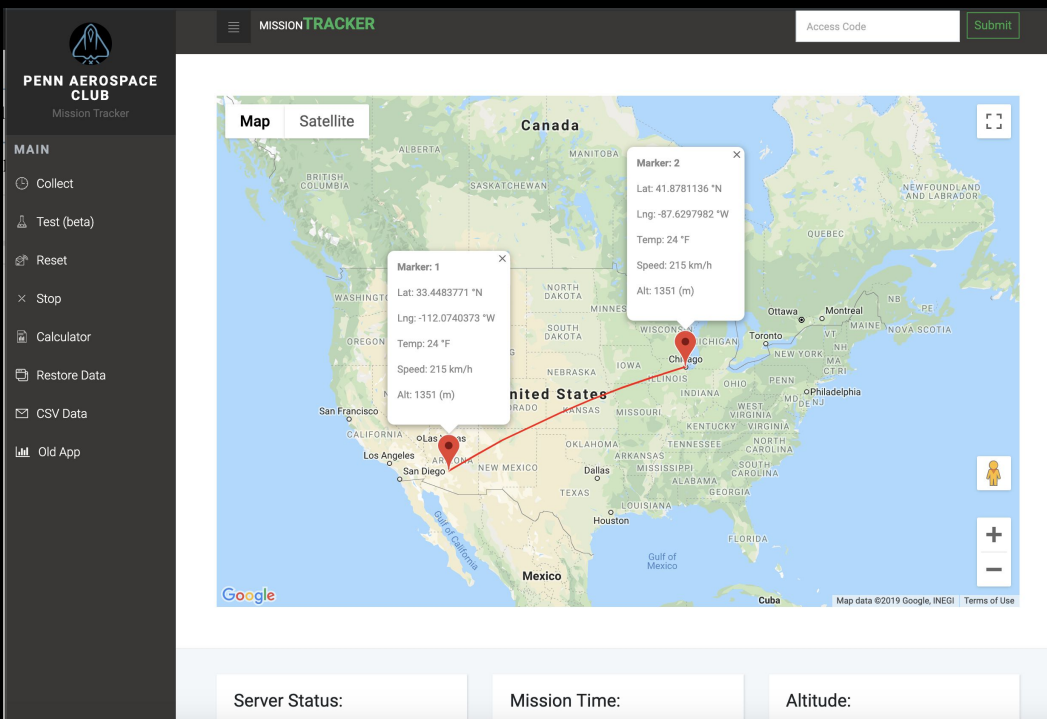
At Penn Aerospace Club, we train the next generation of leaders, engineers, and thinkers by building aerospace crafts. Our main avenues to do so are through aircraft competitions, which test both our vehicle and engineering methodology, and aircraft speaker events, which connect students to notable leaders in the aerospace industry.

Our well-rounded team of 70 boasts students from all corners of Penn, coming from the School of Engineering and Applied Science, the Wharton School, and the College of Arts, studying fields from materials engineering to economics.

AIRCRAFT TEAM

Our Aircraft team designs and builds planes from scratch through laser cutting, 3D printing, and other materials. Last year, we had two successful flights- a flying wing aircraft and a push propeller aircraft.

BALLOON TEAM



Our Balloon team works on designing balloon crafts through 3D printing and through software engineering. Last year, we developed a working 2-way satellite communication system with the payload using Iridium RockBlock technology. This enables us to receive data and track the payload in real time while it's in the air, despite reaching altitudes of over 70,000 feet. We are able to collect data from different sensors, including temperature, pressure, harmful chemicals (VOCs), humidity, etc.

One of the main projects this semester is

ROCKET TEAM



Last year, our Rocket team launched an 11 ft. tall, 6 inch diameter rocket at the intercollegiate 2019 Spaceport America Cup. This Rocket was powered by a Cesaroni N class motor, and achieved an above-ground altitude of 13,000 feet

OPERATIONS TEAM



Our Operations team works on securing grants to help fund teams, crafting bi-weekly newsletters, and promoting inter-club activities to spark interdisciplinary learning. We reach out to prominent members of the Aerospace field to speak to Penn students about their experiences.

WHY

Help us achieve our goals for this year!

This year, our goals are...

- Aircraft- competing in the SAE Aero Design East Competition this March. We plan to experiment with different types of wings and lift generating effects to develop novel RC planes.
- Balloon- competing in the Stanford Global Space Balloon Challenge. For this competition, teams have a timeframe (of a month prior to deadline) to launch their high altitude weather balloons and present a report with their data and flight innovations.
- Rocket- plan on perfecting our recovery electronics, coupler joints, airbrakes and receiving station logistics. We are also planning to build a rocket that utilizes IMU and altimeter data to predict apogee.
- Operations- securing the NASA Space Grant and forging relations with Aerospace companies, as well as with research leaders at Penn.

HOW

Let's Help Each Other!

Our sponsorship relationships go a long way. We seek to build long-lasting, mutually beneficial partnerships that help our club in its operations and connect companies to talent.

You can help support us in these ways:

<i>"WISDOM"</i>	<i>Your expertise allows our team to develop valuable insights to help us build our aerospace crafts and prepares our team members as they enter industry professions.</i>
<i>"NUTS AND BOLTS"</i>	<i>Your donated or discounted top end parts and raw materials make up a world-class aircraft.</i>
<i>"MONEY"</i>	<i>Your donations allows the club to cover our remaining expenses and sustain our growth.</i>
<i>"INFRASTRUCTURE"</i>	<i>We can't do everything in house. Luckily your facilities and services allow us to be at the cutting edge of technology.</i>
<i>OTHER</i>	<i>None of these categories seem right to you? Contact us to find out how you can best support the team!</i>

BENEFITS

We aim to help our sponsors in their goals, whatever they may be. Sponsorship comes with the following perks:

- Recruiting opportunities of Penn's top students
- Publicity on our website, balloons, aircrafts, T-shirts, and any other events
- Invitations to Penn Aerospace launches and special events

We are open to meeting with potential sponsors and discussing other perks!

Thank You to Our Past Sponsors!



Penn
Engineering

NORTHROP GRUMMAN

WHEN

CONTACT US NOW!

Support us as we prepare the next wave of innovative engineers to make their mark. Penn Aerospace Club provides applicable challenges, unique engineering experiences, and an opportunity to develop skill sets extremely valuable in industry. We are building leaders of our future.

The continuation of the Penn Aerospace Club's teams depend on the generous support of sponsors. No donation is too small.

If you have any questions, please do not hesitate to contact us.

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