

PENN AEROSPACE CLUB



2021

Sponsorship Package



ABOUT US

We train the next generation of aerospace leaders and engineers by designing and building the collegiate level's most advanced aerospace crafts.

PAC achieves this through student aerospace competitions that test our vehicle and engineering methodology, as well as aerospace related programming, including technical education, industry events, and a speaker series, which connect our students to notable leaders in the aerospace industry.



2020-2021 Co-Directors



Our team is selective and boasts 70 students from all corners of Penn, hailing from the School of Engineering and Applied Science, the Wharton School, and the College of Arts & Sciences. Collectively, PAC represents the industry's emerging talent in fields ranging from materials engineering to business and more.

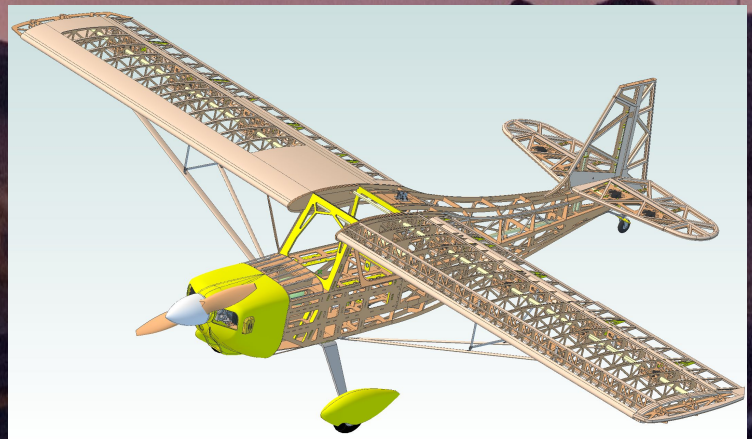
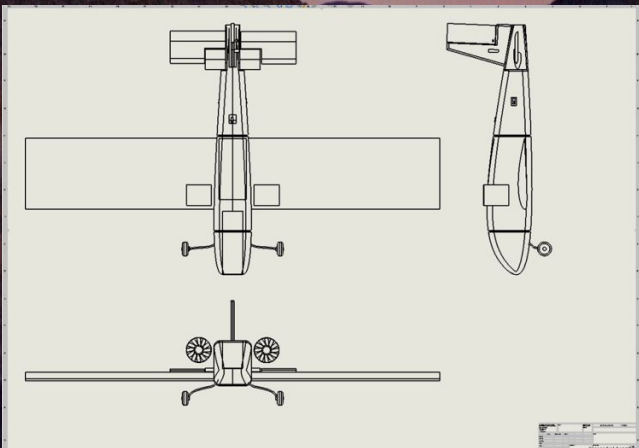
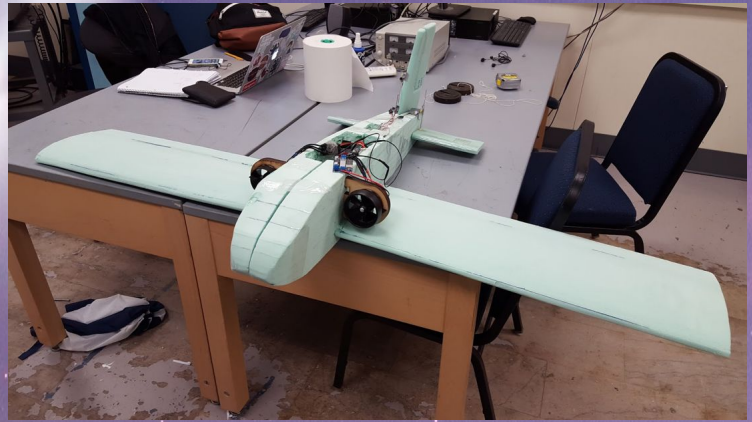
ROCKET TEAM

Last year, our Rocket team engineered and 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.



AIRCRAFT TEAM

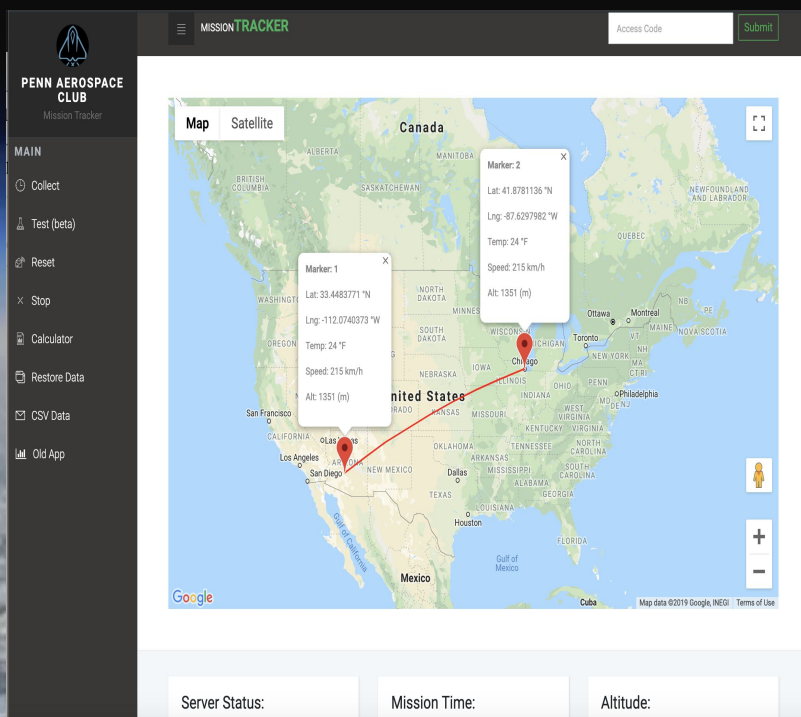
Our Aircraft team designs and builds planes from scratch through rigorous CAD modeling and fabrication with laser cutting and 3D printing, utilizing materials from wood to advanced composites. Last year, we completed two successful flights: a flying wing aircraft and a push propeller aircraft.



ANGZ

BALLOON TEAM

Our Balloon team designs and constructs balloon crafts through 3D printing and software engineering. Last year, we developed a working 2-way satellite communication system carrying as payload Iridium RockBlock technology. This enables us to receive data and track the payload in real time while in flight. Despite reaching altitudes of over 70,000 feet, we are able to maintain full connectivity and collect data from our on-board sensor suite, including temperature, pressure, harmful chemicals (VOCs), humidity, etc. This semester, we are developing an altitude control mechanism and are also planning on competing in the Global Space Balloon Challenge, organized by Stanford in the spring.



OPERATIONS TEAM

Our Operations team works on securing grants to help fund teams, serves as liaison to the University, crafts bi-weekly newsletters, and promotes inter-club activities to spark interdisciplinary learning as well as internal educational, professional, and social events. We reach out to prominent members within the Aerospace community to organize speaker events for Penn students to hear about their experiences. PAC Operations also works to maintain our website, social media, merchandise, and branding.



HOW WE CAN HELP YOU

We aim to help our sponsors achieve their goals, whatever they may be. PAC sponsors gain access to exclusive perks including but not limited to:

- ❖ Recruiting opportunities marketed directly to Penn's top student aerospace talent
- ❖ Access to sponsor-exclusive club resume book
- ❖ Promotion and brand placement on PAC's social media, website, vehicles, merchandise, banners, and more
- ❖ Invitations to Penn Aerospace launches and special events

PAC alumni have gone to work in high impact roles at industry leading aerospace organizations and beyond:



We look forward to meeting with potential sponsors and discussing additional custom perks!

OUR GOALS

This year, our goals are...

- ❖ Aircraft Team – competing in the SAE Aero Design East Competition in March. We plan to experiment with different types of wings and lift generating effects to develop novel RC planes.
- ❖ Balloon Team – 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 Team – 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 and look forward to the Spaceport America Cup.
- ❖ Operations Team – securing funding as well as forging relations with aerospace companies and research leaders at Penn.

OUR PLAN

We seek to build long-lasting, mutually beneficial partnerships that help our club in its activities and connect aerospace companies to talent.

You can support us in many ways:

- ❖ *Your financial donations allows the club to cover our remaining expenses and sustain our growth.*
- ❖ *Your donated or discounted top end parts and raw materials help us make up a world-class aircraft.*
- ❖ *Your expertise allows our team to develop valuable insights that help us build our aerospace crafts and prepare our team members as they enter the industry.*
- ❖ *Your facilities and services allow us to leverage best-in-class technology for our activities.*
- ❖ *None of these categories seem applicable? Contact us to find out how you can best support the team!*

SUPPORTING US

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 that are extremely valuable in the industry. We are building the future leaders of aerospace.

The continuation of Penn Aerospace Club's teams depends on the generous support of sponsors.

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

Email:

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