PURDUE
SAE AERO

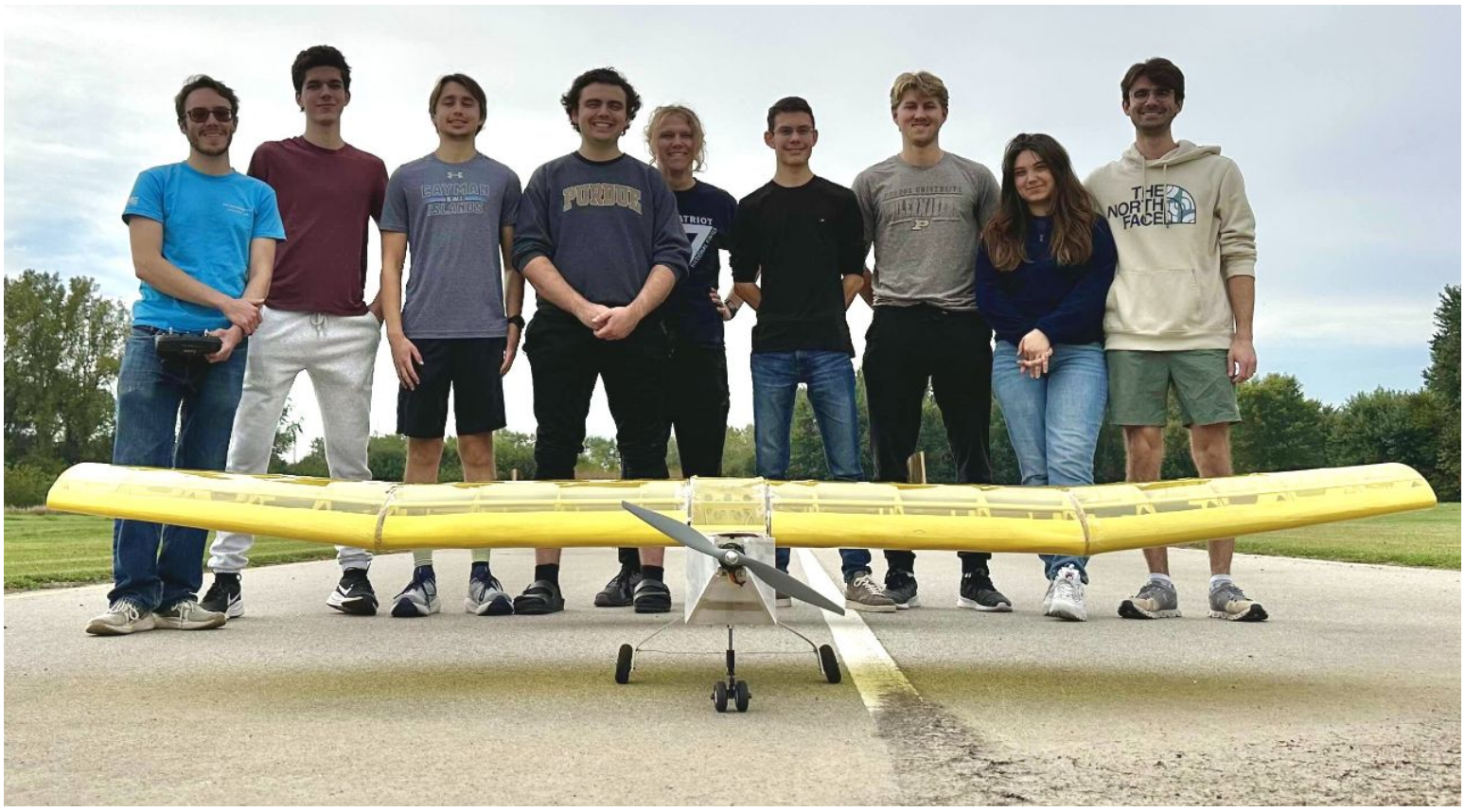
Sponsorship Package
2025

PURDUE SAE AERO

OUR MISSION

Hello! Purdue SAE Aero is a **competitive aircraft design team** that develops, builds, and flies aircraft against other universities from across the nation and around the globe.

Our mission is to **train undergraduate engineers** to utilize aircraft design methodology and tools and **inspire passion** within them to develop high-performing aircraft.



ORGANIZATION AND HISTORY

Purdue SAE Aero is an interdisciplinary engineering team comprising of aeronautical and astronautical engineering students, mechanical engineering students, aerospace engineering technology students, and computer science students. Our organization comprises of three distinct subteams - Aerodynamics, Structures, and Systems - that cooperate to develop aircraft for competitions run by the Society of Automotive Engineers.

Our organization was founded in 2023 with a team of 5 sophomores. While our first team was small and fresh, we worked hard to put a plane in the air for the 2024 SAE Aero Design East competition. Since then, our team has grown rapidly, while still retaining the competitive hunger we started with - moving to place top 10 in presentations for the 2025 SAE Aero East competition. Our aim is not only to outperform other universities in SAE Aero competitions, but also bring innovative design concepts to the table that change the game and inspire development.

PURDUE SAE AERO

LEADERSHIP

Matthew Leight
President
BS AAE
Class of 2025

William Shorey
Construction Lead
BS AAE
Class of 2026

Reece Rewerts
Structures Lead
BS AAE
Class of 2026

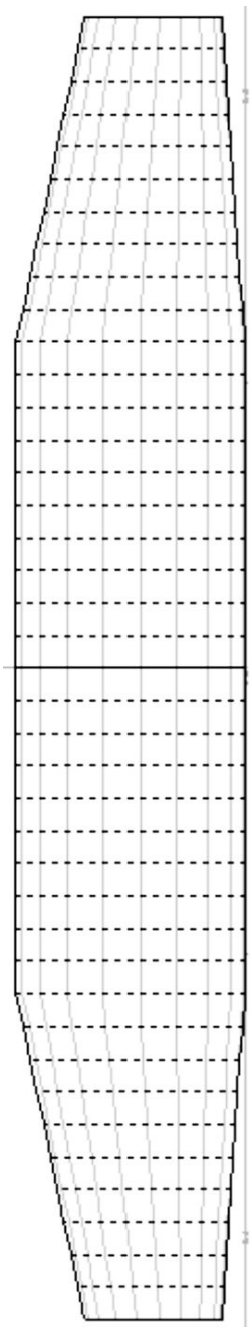
Almos Quevedo
Aerodynamics Lead
BS AAE
Class of 2026

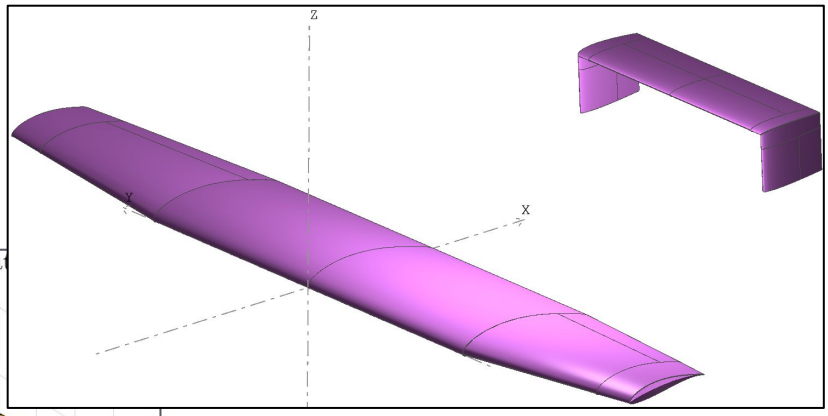
Nicholas Rose
Treasurer
BS AAE
Class of 2026

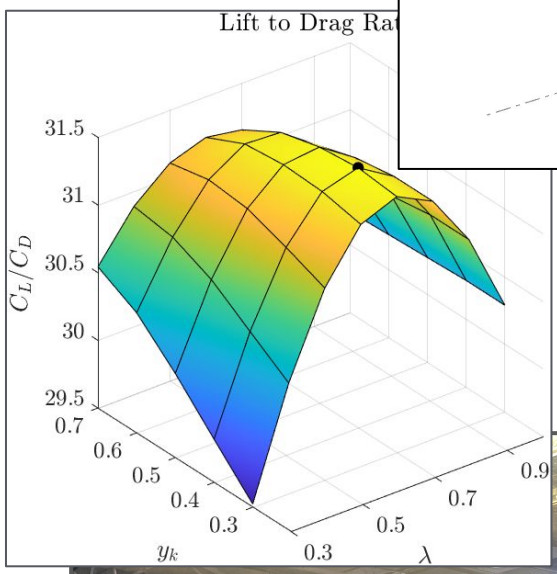
Leticia Santos
Systems Lead
BS AAE
Class of 2026

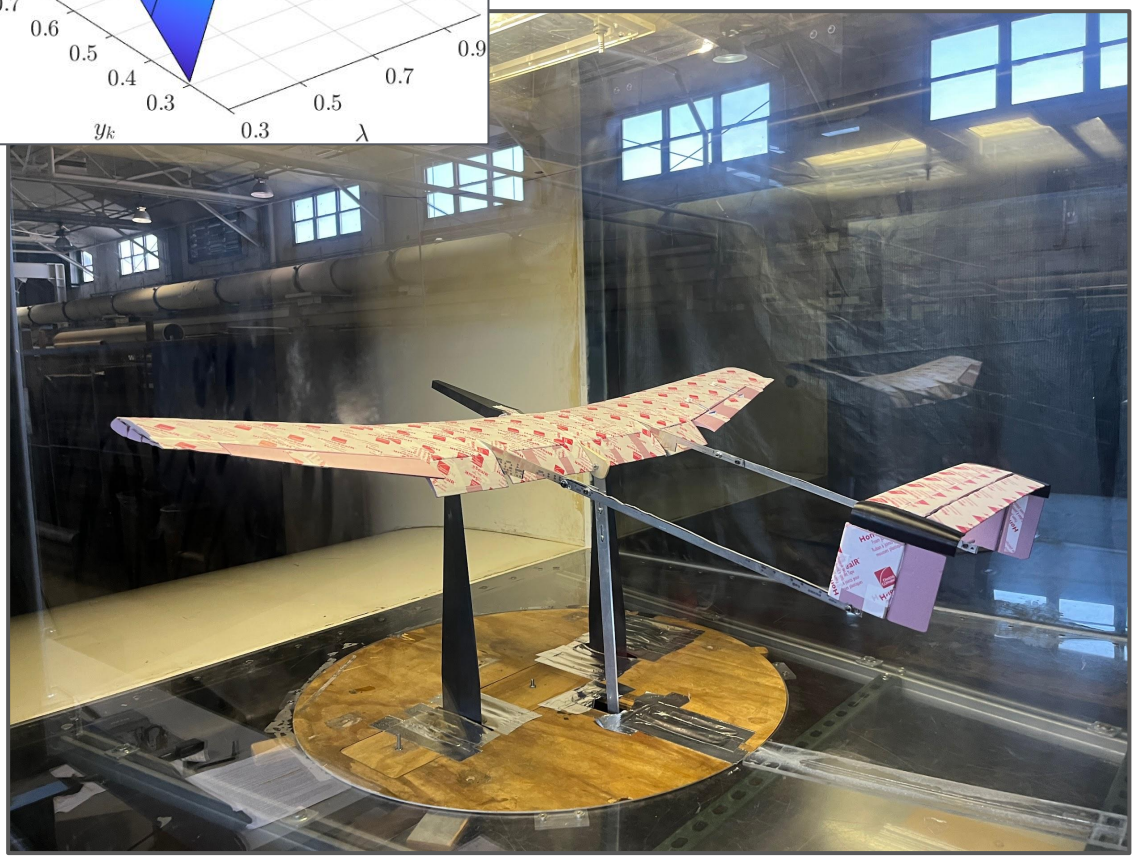
AERODYNAMICS

The aerodynamics subteam specializes in airfoil selection, wing planform design and optimization, and verification via wind tunnel testing. The team utilizes tools including AVL, XFLR5, CFD, and custom MATLAB wrappers for aerodynamic and stability analysis.



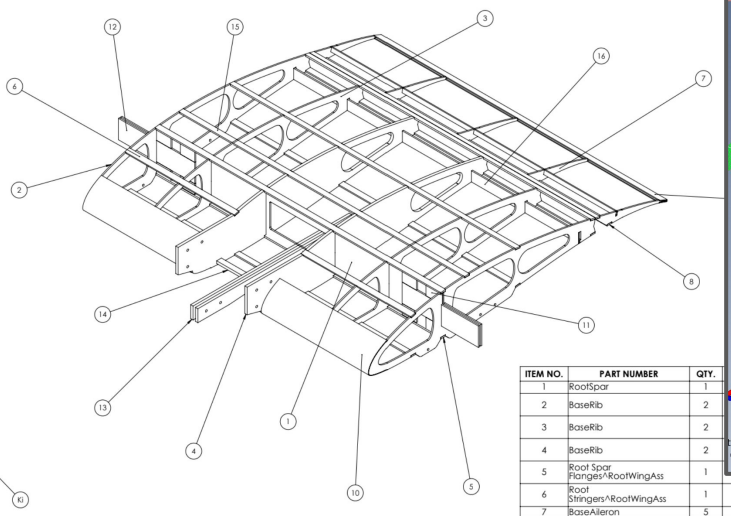






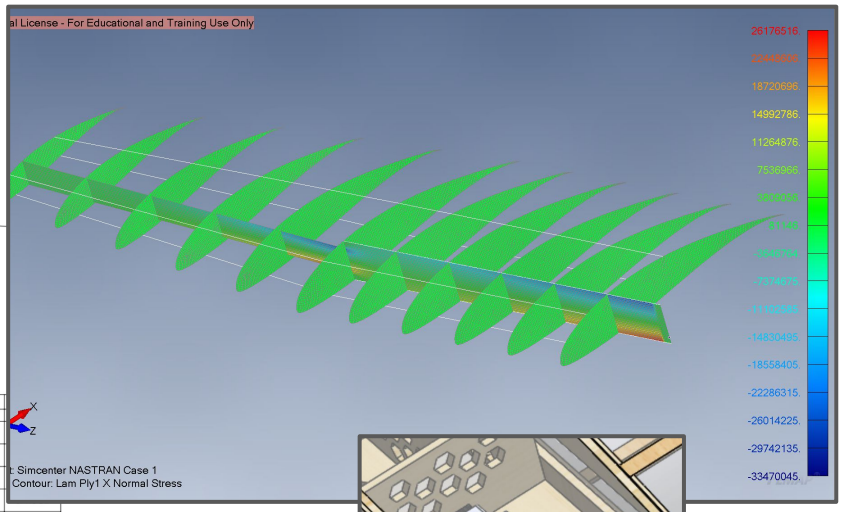
STRUCTURES

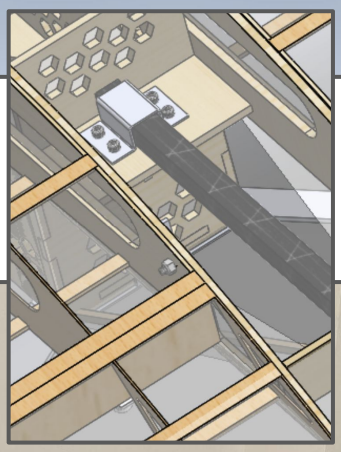
The role of the structures subteam is to cooperate with the aerodynamics and systems subteam to ensure the integrity of the aircraft and manufacturing feasibility. Additionally, structures conducts loading and stress tests on different aircraft components to verify finite element analysis results.



ITEM NO.	PART NUMBER	QTY.	
1	RootSpar	1	
2	BaseRib	2	
3	BaseRib	2	
4	BaseRib	2	
5	Root Spar Flanges^RootWingAss	1	
6	Root Stringers^RootWingAss	1	BALSA
7	BaseAileron	5	BALSA
8	Stringers^FlapAss	1	BALSA
9	Flap TE Sheeting^FlapAss	1	BALSA
10	Leading Edge Sheeting^RootWingAss	1	PLYWOOD
11	ShearSupport	16	PINE
12	ShearConnector	4	SPRUCE
13	Cargo Support Plate^RootWingAss	2	PINE
14	Payload Stringers^RootWingAss	1	PINE
15	Top Roof Support Stringer^RoofWingAss	1	BALSA
16	Root Secondary Spar^RootWingAss	1	PINE

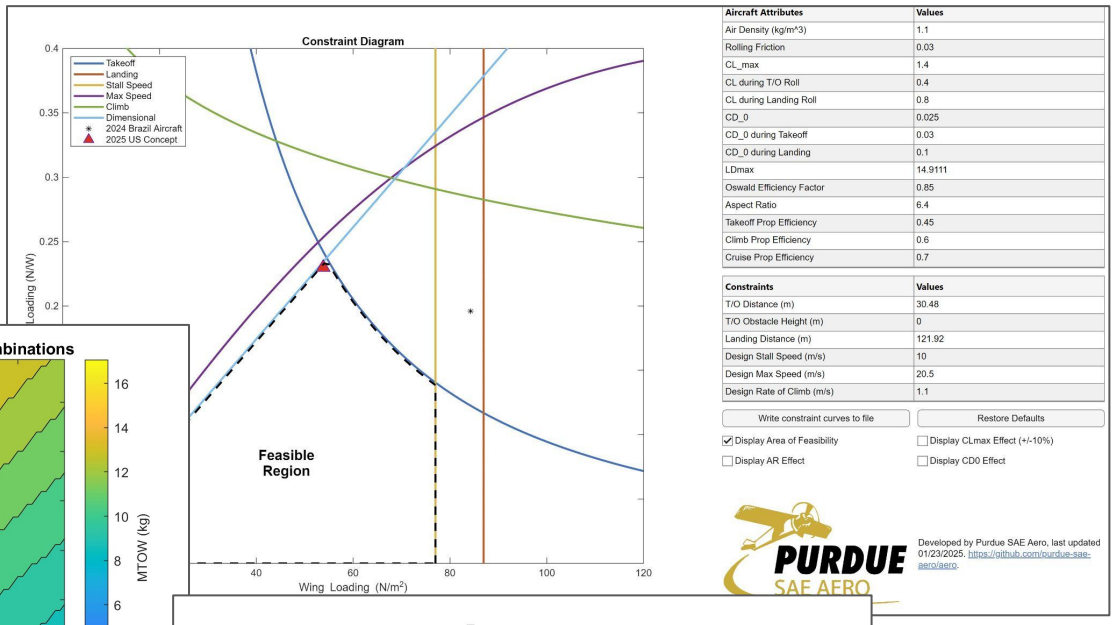
RIB POSITION	RIB TYPE	RIB MATERIAL	RIB THICKNESS
Ki	Root 2-Spar Mate	Basswood	1/8"
L	Root 2-Spar	Balsa	1/8"
M	Root 2-Spar Fus	Pine	1/4"
N	Root 2-Spar Fus	Pine	1/4"
O	Root 2-Spar	Balsa	1/8"
Pi	Root 2-Spar Mate	Basswood	1/8"

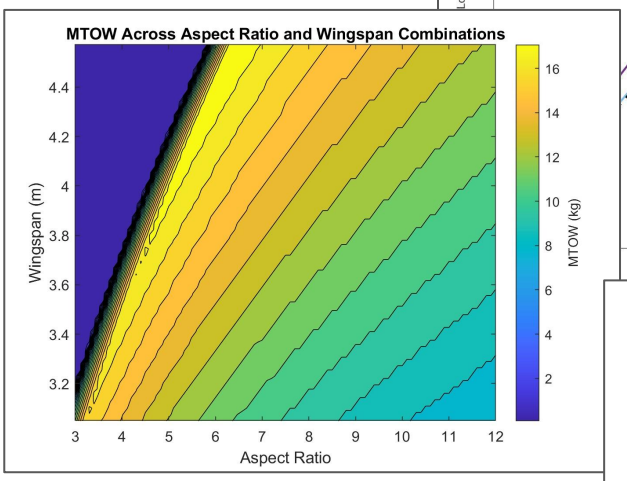


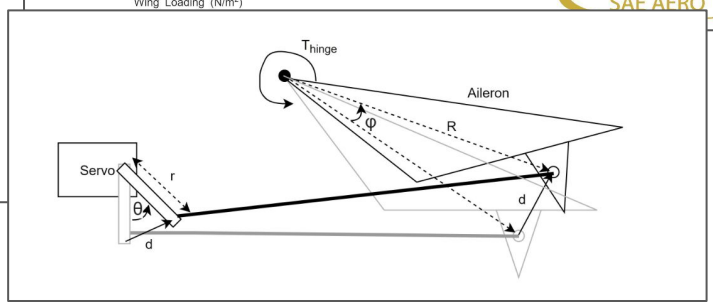


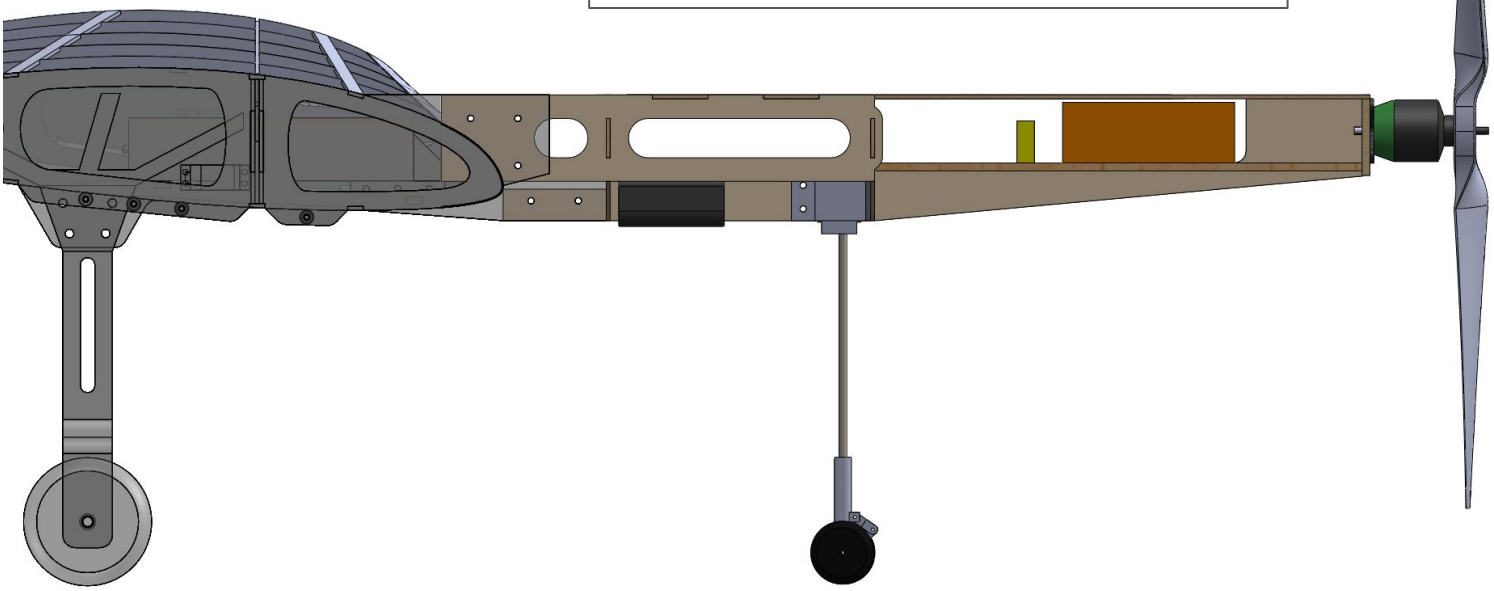
SYSTEMS

The systems subteam is responsible for successfully integrating all aircraft components such as landing gear, electronics, and payload package. Currently, the systems subteam is designing the internal compartment in our new fuselage for the upcoming SAE Aero East competition.



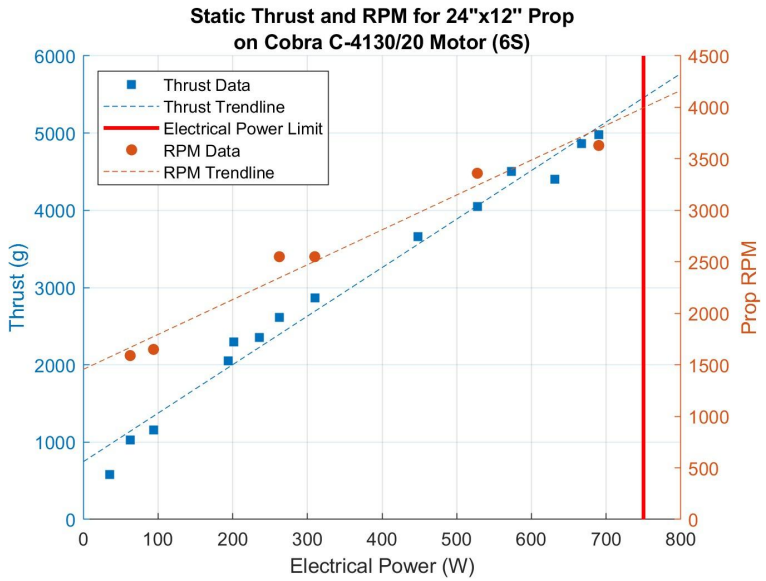


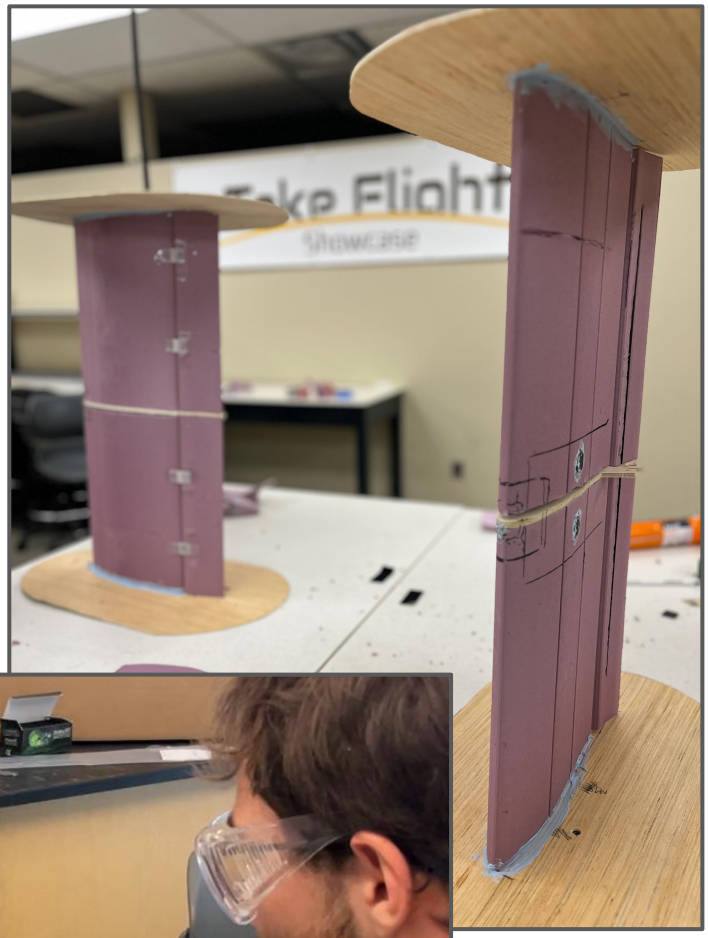


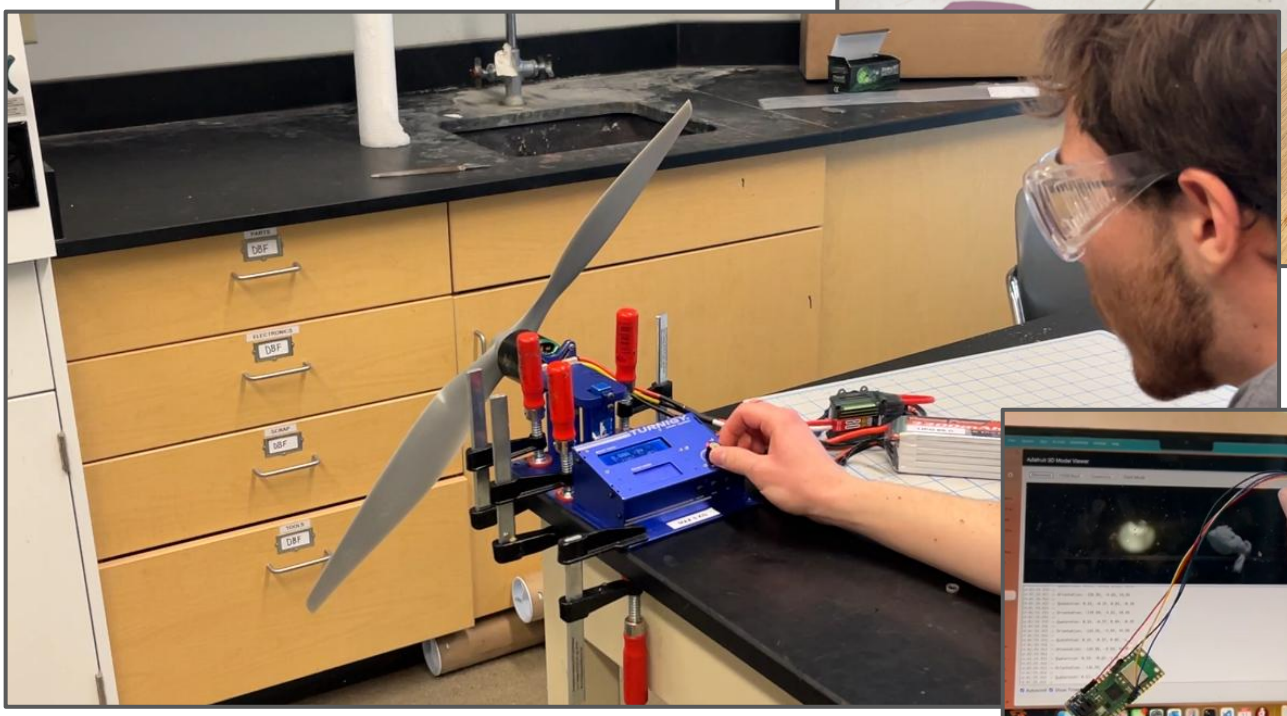


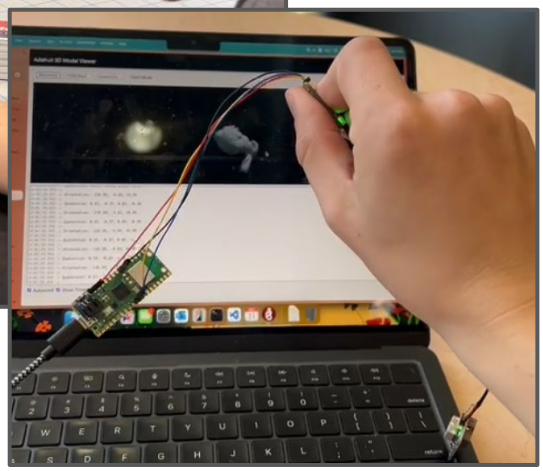
RESEARCH AND DEVELOPMENT

In addition to our three established subteams, Purdue SAE Aero also invests resources towards research of designs and data to support its competition developments. Projects include flap design, thrust testing, and autonomous flight.









COMPETITIONS

Purdue SAE Aero participates in two annual competitions run by the Society of Automotive Engineers (SAE), SAE Aero Design East and SAE Brasil Aerodesign. These competitions feature 3 days of fly-offs between universities from around the world - the pinnacle of months of engineering design and testing from dozens of Purdue engineers.

PACKAGES

TAKEOFF

$100-$999

- Logo in marketing materials
- Team update newsletters

CRUISE

$1,000-$3,999

- All previous rewards
- Logo on competition aircraft and team jerseys
- Access to team resume booklet

SUPERSONIC

$4,000+

- All previous rewards
- Invitation to major team events
- PSAEA will host a networking session

CONTACT US

INSTAGRAM

https://www.instagram.com/purduesaeaero?utm_source=ig_web_button_share_sheet&igsh=ZDNlZDc0MzIxNw==

PURDUESAEAERO

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PURDUE
SAE AERO

How to Sponsor by Check

Make the check payable to SAE Aero at Purdue, BOSO account 03396

Mail the check to:
Business Office for Student Organizations (BOSO)
1198 3rd Street, Room 365
West Lafayette, IN 47906

How to Sponsor Electronically

1. Visit this website: https://giving.purdue.edu/cart?dids=SO3396&appealcode=18240
2. Under the One Time Gift, press edit
3. Choose payment style and enter payment amount
4. Checkout
5. Enter the email address
6. Under “Giving by Corporate Credit Card,” enter the company name
7. Enter payment information
8. Review Order
9. Place Order