



# TJ UNMANNED AERIAL VEHICLE CLUB



## SPONSORSHIP PACKET

2025 - 2026

# ABOUT US

We are **Thomas Jefferson High School's Unmanned Aerial Vehicle Club**. At TJUAV, we are dedicated to advancing our knowledge in **aeronautical engineering**. For the past few years, we designed and manufactured an **Unmanned Aerial Vehicle (UAV)** to compete in the **SUAS Competition by RoboNation**, an internationally recognized event that simulates a search and rescue operation.

Through TJUAV, students can...

- Explore aviation and engineering concepts through **large-scale, hands-on projects**
- Gain hands-on experiences through:
  - Proposing ideas
  - Testing designs
  - Refining prototypes
- Develop solutions to competition challenges in a **collaborative environment**

# SUAS COMPETITION

**SUAS by RoboNation** is an international, collegiate competition that has hosted **over 75 teams** in recent years. SUAS's mission is to simulate an unmanned search and rescue situation.

The competition was held at **St. Mary's County Regional Airport (2W6)** in St. Mary's County, Maryland.

More information about the competition can be found here:  
**<https://suas-competition.org/>**

# CURRENT COMPETITIONS

Currently, we are considering new competitions to compete in, but we still need funding to build a competitive UAV.

Financial assistance would go a long way to help us achieve our goals and learn valuable skills in the field.

# ACCOMPLISHMENTS

## 2019:

In 2019, it was our **first year competing** at the SUAS competition. We developed the **Razgriz**, a Skywalker X8 airframe that was modified to fit radios in the fuselage and a camera in the nose of imagery.

- We placed **23rd overall out of 75 teams** and **18th in Mission Demonstrations**.

## 2020 & 2021:

For 2020, we developed the **Hyperion**, a Skywalker Titan airframe that was modified to fit a UGV payload drop mechanism, radios for communication, and a camera gimbal for the imagery system.

For 2021, we constructed the **Avalon V1**, the first plane that we made **completely from scratch**.

- Due to the COVID-19 pandemic, the 2020 and 2021 SUAS competitions were cancelled.

## 2022:

For **AvalonMk 2 and Mk 3.5**, we modified the Avalon Mk 1 by interchanging its foam board wings for a monokote covering and a plastic shrink wrap material.

- We placed **23rd overall out of 71 teams** and **tied 18th in Mission Demonstrations**.

## 2023 & 2024:

We created **Avalon MkX and Mk XI**, we altered Avalon Mk 3.5 with 3d printed bulkheads, covered with foam panels, larger battery, and a more compact electronics bay and payload section.

Unfortunately in 2024, **Mk XI crashed** during the SUAS competition.

- In 2023, we placed **14th overall out of 72 teams** and **tied 2nd in Mission Demonstrations**.
- In 2024, we placed **44th overall out of 69 teams** and **tied 4th in Mission Demonstrations**.

## 2025

We designed **Icarus** from scratch to compete in the SUAS Competition. Unfortunately, **Icarus** crashed before we could complete the Flight Test video for the competition.

- However, we were fortunate to have the opportunity to attend the competition as guests and chat with other teams about their UAVs.

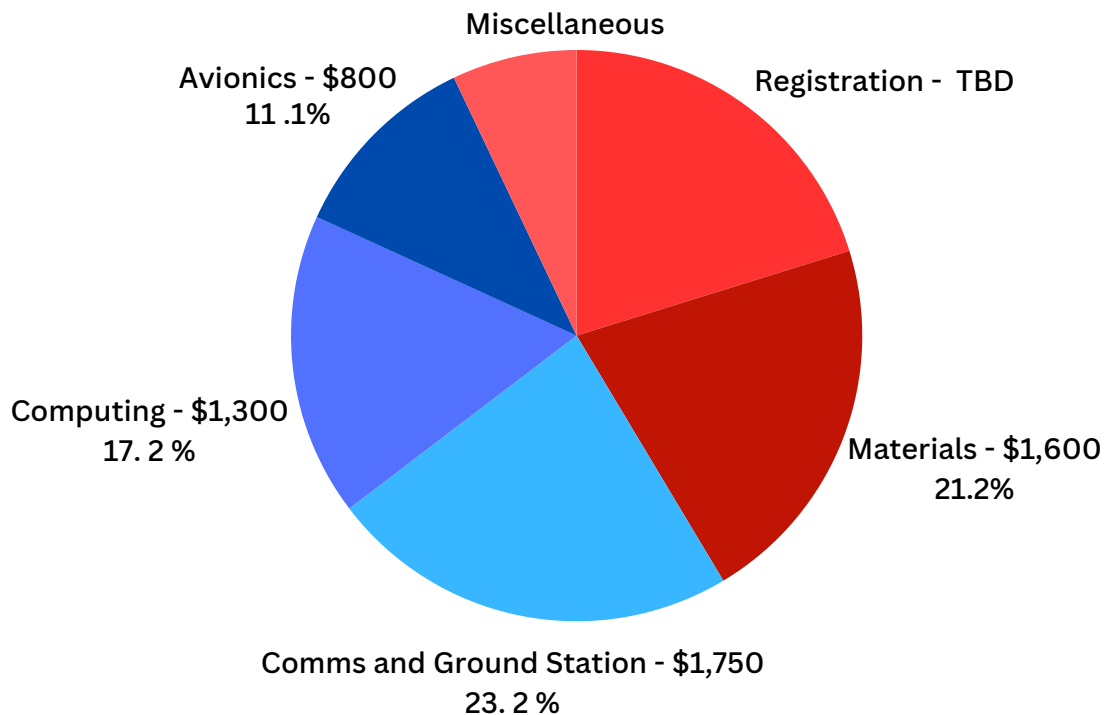
## Present

We repaired the damage on Icarus from the crash.

We are drafting the design for a new plane while actively looking for a new competition to compete in due to the location change of the 2026 SUAS Competition.

# EXPENSES

Here is our projected budget for this year. We are seeking donations of **materials**, **equipment**, and **funds** to support our participation in a **competition**. This year, our team is improving the designs of our current aircraft. To achieve this, we need a variety of **materials** and **resources** that we currently lack. Your support will be essential for us to successfully compete in a competition.



## Management

- Registration:  
TBD

## Software

- Computing:  
\$1,300
- Comms and  
Ground  
Station:  
\$1,750

## Hardware

- Materials:  
\$1,600
- Avionics:  
\$800

**Total Projected Expenses: \$5,450**

# SPONSORSHIP TIERS

We sincerely thank you for your sponsorship and aim to **recognize** and **promote** your organization in meaningful ways. As a sponsor, your organization will **gain visibility** through its name being showcased on our **website**, our **competition plane**, and other **team materials**. Additionally, other benefits include **social media spotlights**.

## Tiers Benefits

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### BRONZE UNDER \$500

- Your organization's name, logo, and sponsorship displayed on our **website**.
  - Your organization's name on our **Technical Design and Flight Readiness Review video**.
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### SILVER \$500-1000

- Includes **BRONZE** benefits, PLUS
    - Your organization's name and logo displayed on our **competition plane**.
    - Your organization's name and logo displayed on our **team shirts**.
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### GOLD \$1000+

- Includes **SILVER** benefits, PLUS  
Your organization's name and logo displayed on **all team materials, banners, and social media accounts**.

## CONTACT US

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