



**SPARTAN FLIGHT**

**SJSU** SAN JOSÉ STATE  
UNIVERSITY



# **Spartan Flight Sponsorship Packet 2026**



@spartan.flight



/spartan-flight

[www.spartanflightssjsu.com](http://www.spartanflightssjsu.com)

# About Us



Spartan Flights, **an engineering club at San Jose State University**, brings together student engineers to design, build, and operate competitive autonomous UAV systems, facing real-world challenges

**Founded in 2025**, this club brings together students from engineering, business, and computer science backgrounds to provide members with real-world experience in aeronautics, systems integration, and project management.

We bridge the gap between classroom learning and industry practice, offering projects like fabricating a custom, designing a safe payload delivery system, building a custom battery management system and battery pack, and working on difficult computer vision and optimization problems.

## Our Values

- **Innovation:** We push for the best performance through iterative design and data analysis
- **Teamwork:** We combine the skills and backgrounds of different students to accomplish more, faster
- **Education:** We provide students with a way to put theory learned in a classroom into action in the field

## About the Competition

The Student Unmanned Aerial Systems (SUAS) Competition, hosted by AUVSI, challenges university teams to design, build, and fly autonomous aircraft capable of completing complex missions. Teams are scored on their system design, mission performance, and autonomous capabilities such as object detection and navigation. The competition simulates real-world UAV applications like search and rescue and aerial mapping. It provides students with hands-on experience in aerospace engineering, robotics, and teamwork under real operational constraints.

# Sponsorships

LAUNCH TIER \$25 - \$249	SILVER TIER \$250 - \$749	GOLD TIER \$750+
<b>FOUNDER'S CIRCLE RECOGNITION</b> <b>LOGO ON WEBSITE SPONSOR PAGE</b> <b>MONTHLY PROGRESS REPORT</b> <b>SOCIAL MEDIA SHOUTOUT</b>	<b>ALL "LAUNCH" BENEFITS, PLUS:</b>  <b>DEDICATED SOCIAL MEDIA SPOTLIGHT</b>  <b>SMALL LOGO ON SHIRTS</b>	<b>ALL "SILVER" BENEFITS, PLUS:</b>  <b>LARGE LOGO ON SHIRTS</b>  <b>LOGO ON 25-26 EVENT BANNERS</b>  <b>YEARLY STRATEGY MEETING WITH CLUB LEADERSHIP</b>

## Why Sponsor Spartan Flight?

Building a custom-engineered drone is a major undertaking, requiring funding for specialized components, tools, and materials. **As a student-run organization, we heavily rely on the support of sponsors and community partners to make our projects possible.**

Your contributions help us purchase flight hardware, onboard sensors, and testing equipment, as well as attend regional UAV competitions that challenge our team to innovate and excel. Without your support, we will not be able to compete to our best ability.

By sponsoring Spartan Flights, your brand will be associated with one of San José State University's fastest-growing and most innovative engineering teams. Sponsors are featured across our **social media, website, event materials, and team merchandise**, reaching both the SJSU community and a growing network of students, faculty, and industry partners. Beyond visibility, we view sponsorships as **collaborations**, meaning that we're always open to creative partnerships, technical input, or joint outreach ideas that align with your company's goals.

**We accept both monetary and parts/materials for sponsorship. Materials are considered at their fair market value for sponsorship tiers.**

## What is Founder's Circle?

Founder's Circle is a limited-time opportunity for early sponsors to be recognized as the first to support Spartan Flights. Members receive early adopter rates for tiers, permanent "Founder" recognition on our website, and lifetime visibility in sponsor materials.

*Introductory tiers are set to change early in 2026.*



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# Meet the Leads

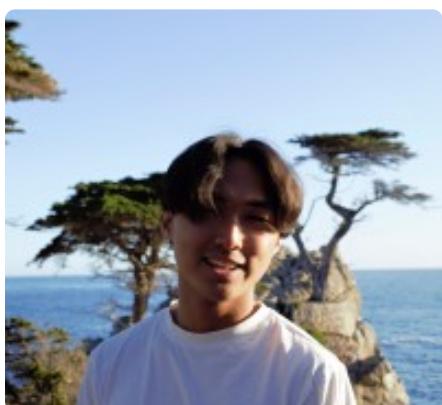


## **BEN NGUYEN - ELECTRICAL LEAD**

*Electrical Engineering Major*

Interests:

- Vehicle Systems
- Power Electronics
- Electromagnetics



## **ANDY VAN - SOFTWARE LEAD**

*Computer Science Major*

Interests:

- Autonomous Systems
- Sim2Real
- Deep Neural Networks



## **JUSTIN WANG - MECHANICAL LEAD**

*Mechanical Engineering Major*

Interests:

- Computer Aided Design
- Additive Manufactuering
- UAS systems



## **ETHAN ONYETT - BUSINESS LEAD**

*Business Analytics Major*

Interests:

- Predictive Analytics
- Machine Learning
- BI & FP&A



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# Projects

We are split into three technical subteams: mechanical, electrical, and software. This year, we intend to build a drone that can fly for 30+ minutes, perform high-quality photogrammetry, and deliver a payload to search and rescue targets.



## MECHANICAL

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- Custom airframe
- Battery power pack
- Payload release mechanism
- Innovated parachute design
- Weight reduction



## ELECTRICAL

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- Li-ion power pack fabrication
- Battery management system
- Telemetry and communications
- Low-voltage power regulation
- FPGA computer vision acceleration



## SOFTWARE

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- OpenCV photogrammetry
- Target detection with AI
- Nvidia Jetson optimizations
- Autonomy software
- Simulation software



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# Roadmap

► **October 2025 - First General Meeting**

► **December 2025 - Initial Design Complete**

► **February 2026 - First Autonomous Flight**

► **March 2026 - First Major Revision Round**

► **May 2026 - Second Major Revision Round**

► **July 2026 - Final Optimizations, Design Documentation**

► **September 2026 - UAS Competition**

► **October 2026 - Post Competition Reflections & Celebrations**



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# Sponsor Us

## How to Donate

Contact us at [spartanflightsjsu@gmail.com](mailto:spartanflightsjsu@gmail.com), and we will coordinate with you!

## Thank you to our Founding Sponsors!

