



Autonomous Motorsports Purdue

2023-2024 Sponsor Guide



Autonomous Motorsports Purdue

Autonomous Motorsports Purdue is a club dedicated to provide Purdue students with hands-on experience in **autonomous vehicles** through the development of an **autonomous go-kart** and competes in the Autonomous Karting Series. We are a team of passionate engineers from various disciplines, including Computer Science, Electrical and Computer Engineering, Mechanical Engineering, and more.



Autonomous Karting Series

AMP is a founding member of the **Autonomous Karting Series (AKS)**, and hosts the **AKS Purdue Grand Prix**: An event where various universities design and build a driverless go-kart and compete against each other. Competing karts are tested for their performance and reliability.

AKS offers a collaborative platform for teams to learn and apply their skills in an ambitious project. The goal of AKS is to make kart-scale, head-to-head autonomous racing accessible to college students.



About the Team

Results

In May of 2023, we competed in the inaugural Autonomous Karting Series and got 2nd place. This was after a 4 year hiatus from other competitions.



Technical Achievements

The software is built with the latest computer vision models on an NVIDIA Jetson for goal setting and autonomous control. The kart itself has been modeled in CAD and parts for it have been manufactured and validated with FEA tools, while custom embedded systems are used for power delivery, telemetry, and electrical control.

Sponsorship

AMP depends on the support of sponsors to provide its members the opportunity of building an autonomous go-kart and compete in AKS. Below is a table of sponsor tiers. Feel free to reach out to us if you would like to contribute in another way.

| Tiers | Value | Logo on Website | Logo on Kart | Resume Book | Team-wide Branding | Exclusive Events |
|-----------|--------|-----------------|--------------|-------------|--------------------|------------------|
| Gold | \$5000 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Silver | \$2500 | ✓ | ✓ | ✓ | ✓ | ✗ |
| Bronze | \$1000 | ✓ | ✓ | ✓ | ✗ | ✗ |
| Supporter | \$250 | ✓ | ✗ | ✗ | ✗ | ✗ |

Contact

Club Email

AMP

amppurdue@gmail.com

President

Ben Owen

benjaminowen@purdue.edu

Faculty Advisor

Samuel Labi

labi@purdue.edu

