



2025 - 2026

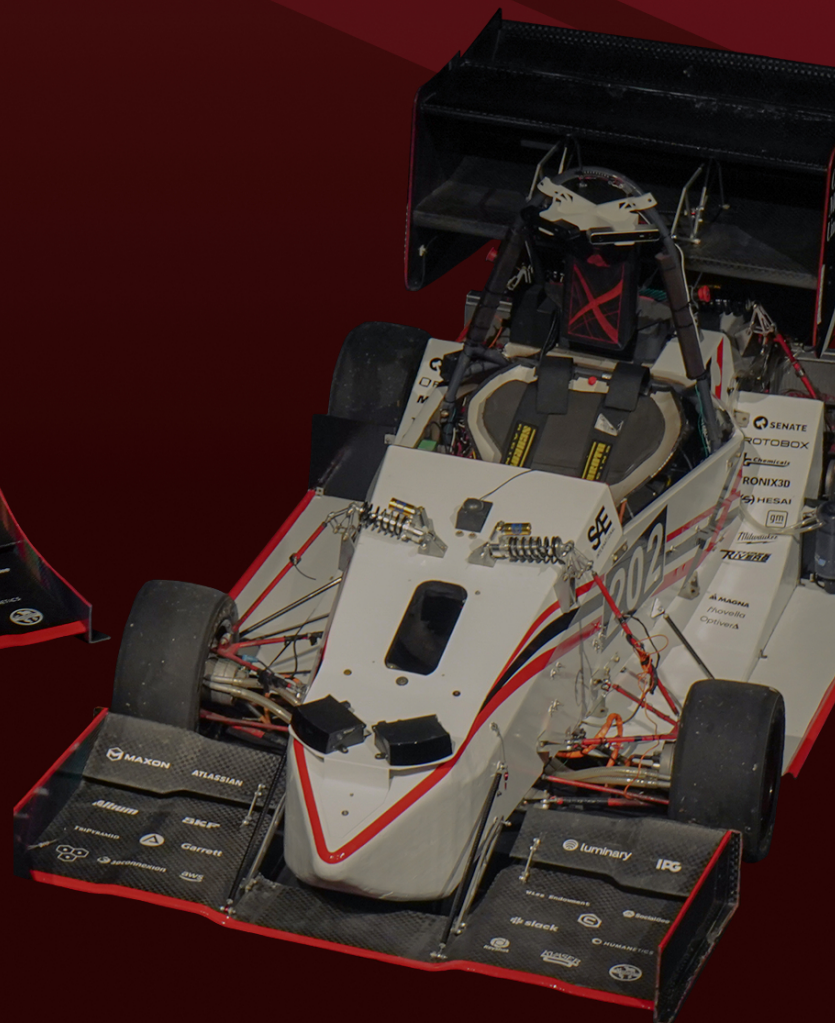
EV

#299

FSAE

SPONSORSHIP INFORMATION

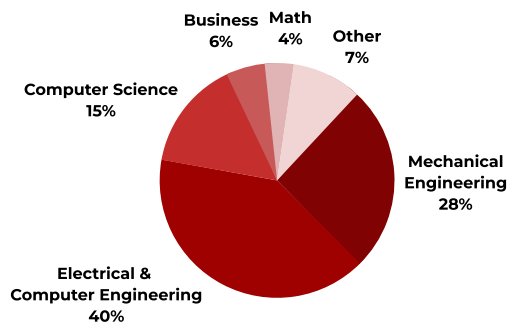
CARNEGIE MELLON RACING



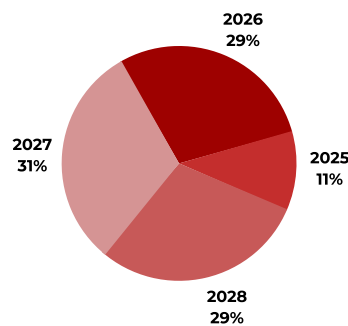
The Team

Carnegie Mellon Racing (CMR) is a student team of the Society of Automotive Engineers (SAE) and the **largest engineering student organization** at Carnegie Mellon University. Every year, **we design and fabricate a fully electric, open-wheeled race car** to compete against teams around the world in the Formula SAE Electric competitions. Composed of over 150 members representing every college at Carnegie Mellon University, our team is divided into 6 departments: Structures, Energetics, Driverless, Marketing and Outreach, Finance, and Race Operations.

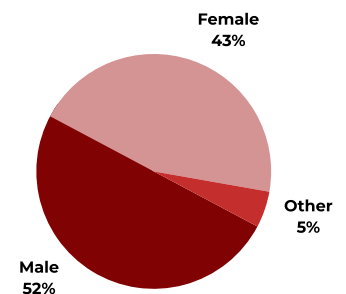
Major



Graduation Year



Gender



CMR is proud to present students with a unique opportunity to apply knowledge from their core curriculum and also learn and further develop hands-on skills outside the scope of the curriculum. We aim to be at the forefront of electric vehicle race technology. **Your help will ensure the success of Carnegie Mellon Racing and contribute to the development of our members' engineering and design skills and a space for shared interests in automotive engineering.**

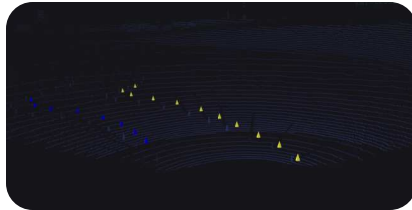


Driverless

Through our Driverless program, we are able to make our championship-winning cars fully autonomous racing vehicles. While our first iteration, 19a, completed the first-ever autonomous FSAE lap in North America, and 22a reached 50 km/h on a dense cone track, this year's vehicle, **24a, is our most advanced yet, designed to be the first manual and driverless operated car.**

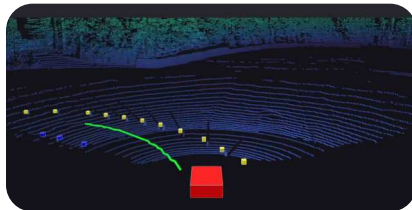


PERCEPTIONS



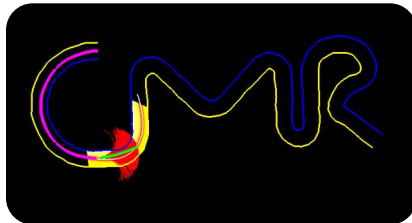
Our perceptions stack integrates LiDAR, cameras, and GPS with advanced YOLO machines learning vision models and point cloud processing to precisely identify the location and color of cones to map out the entire track.

PATH PLANNING



We leverage support vector machines to generate a spline going through the cones observed ahead.

CONTROLS



Our state-of-the-art model predictive controller simulates a million future trajectories every second, deriving the optimal control trajectory and actuating steering and motors accordingly.

Building on our success, we look to lead FSAE into an autonomous future in North America. With our fully custom software stack, we'll be showcasing 24a at FSAE Michigan among 100+ teams in a Driverless exhibition we helped pioneer. This year, we've also released open-source documentation to support and grow the global DV community. Through extensive collaboration with our industry partners, **we look to lead FSAE into an autonomous future.**



What is Formula SAE?

Formula SAE is a **collegiate design competition** sponsored by the Society of Automotive Engineers (SAE), in which students **compete to design and manufacture a Formula style racecar**, either combustion or electric, to earn the most points across 8 different events.

While operating within the safety requirements of the rules, teams seek to optimize acceleration, corner speeds, and mass to gain the most points as possible in a series of static and dynamic events.

Every year, over 5000 students across hundreds of universities participate in 3 FSAE competitions, 2 of which are available for electric vehicles like ours.

Static Events

Design Event	150
Cost Event	100
Presentation Event	75

Dynamic Events

Acceleration	100
Skidpad	75
Autocross	125
Efficiency	100
Endurance	275

Total Points	1000
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Formula SAE promotes excellence in engineering while challenging students to involve themselves with all aspects of the automotive industry **beyond just engineering design**. They are expected to understand the car not only from the research and manufacturing aspect, but also from a **business, marketing, and financial perspective**. Formula SAE plays a critical role in the education and experience of our members, who cite being part of Carnegie Mellon Racing as a key step in their development as engineers and leaders.



Accomplishments

Each year, we compete at two competitions, **Formula Hybrid + Electric** in New Hampshire and **Formula SAE Electric** in Michigan. Despite switching from the production of a combustion vehicle to an electric vehicle in 2013, we have continued to perform incredibly well in all aspects of these competitions.

1st Place

2nd Place

3rd Place

2025

Acceleration Formula H+E
Engineering Design H+E
Autocross Formula H+E

Engineering Design FSAE Electric
Cost FSAE Electric

2024

Acceleration Formula H+E
Autocross Formula H+E
Overall Formula H+E

Garrett Powertrain Innovation
Award

2023

Acceleration Formula H+E
Autocross Formula H+E
Engineering Design Formula H+E
Overall Formula H+E

Overall FSAE Electric
Skipdpad FSAE Electric
Endurance FSAE Electric

2022

Overall Formula H+E
Engineering Design Formula H+E
Presentation Formula H+E
Acceleration Formula H+E
Autocross Formula H+E

Endurance Formula H+E
Engineering Design FSAE Electric
Presentation FSAE Electric
Efficiency FSAE Electric

2021

Design Presentation

4th Place Knowledge Overall

2020*

Business Presentation

*regular competition cancelled



Why Support Us?

Our mission

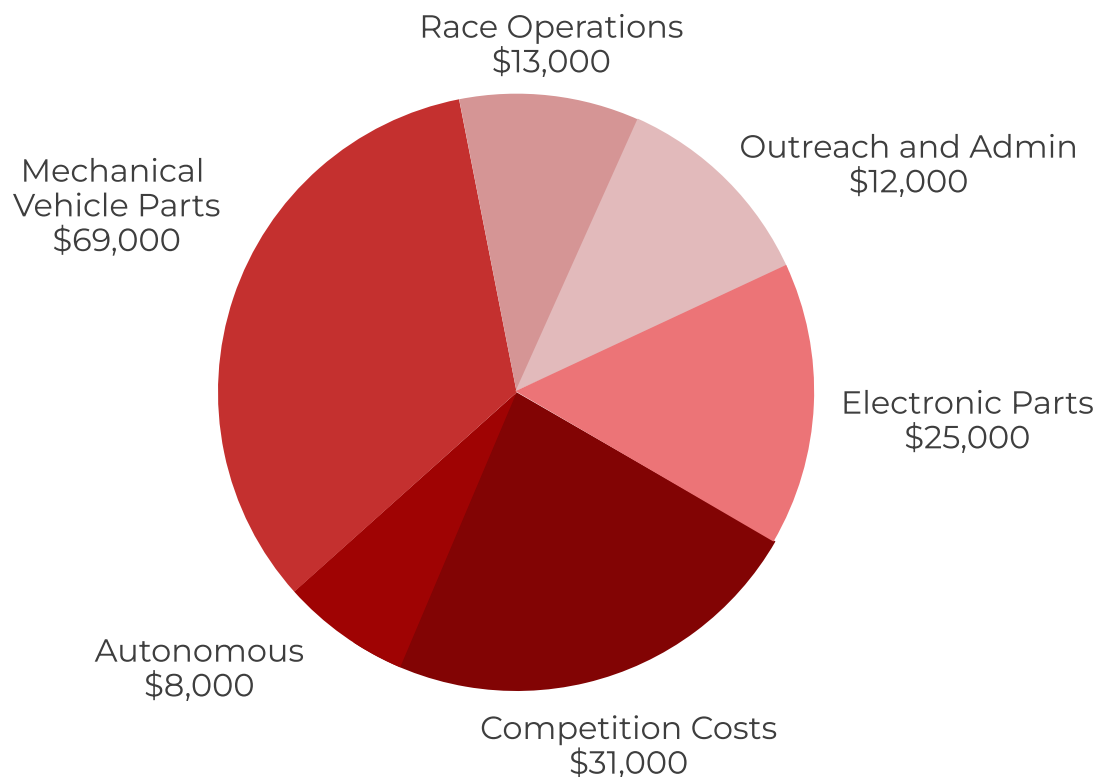
Provide undergraduates with opportunities to gain technical and managerial experience on a large engineering project. We strive to transform students into proficient engineers, leaders, and problem solvers.

We need your help

Our goal is to maintain our place as a top team and continue challenging ourselves to develop the best racecar we can. This can only possible with your support! Corporate sponsors contribute to more than half of our team budget. We believe that in exchange for your support, we can give sponsors the ability to network with our most experienced members, attend and speak at our meetings and unveiling events, and engage in brand awareness and marketing. As a result, a majority of our best engineers go on to work for the companies that support us.

Budget Overview

Total:
\$158,000



Sponsor Benefits

Access to top engineering talent

Influence the future of engineering

Brand awareness and recognition



Sponsorship Opportunities

Carnegie Mellon Racing has been able to design a competitive racecar through the generosity of corporate sponsors. Sponsorship can be in the form of cash or in-kind donations of materials or services.

For more information about donations and sponsorships please email:

formula-sae@andrew.cmu.edu

Sponsorship Packages

	Friends of CMR	Bronze	Silver	Gold	Title
Donation Level	\$ 1 - \$ 999	\$ 1,000 - \$ 4,999	\$ 5,000 - \$ 9,999	\$ 10,000+	\$ 50,000+
Logos on Race Car	0	1	2	2	3
Size of Logo	-	S	M	L	XL
Logo on Website	X	X	X	X	X
Invitation to Unveiling Ceremony	X	X	X	X	X
Logo on Shirt and Banner	X	X	X	X	X
Resume Book		X	X	X	X
Virtual Recruiting Presentation		X	X	X	X
In-Person Recruiting Presentation			X	X	X
Small Group Recruiting *				X	X
Team Naming					X

* Small Group Recruiting involves hand selecting our most experienced and dedicated members and arranging for one-on-one and/or small group recruiting events with your company in our workspace.

Carnegie Mellon Racing is 501(c)(3) tax-exempt through Carnegie Mellon University, and thus all monetary and most in-kind donations are tax deductible.



Package Descriptions

Title Sponsor | \$50,000+

- Opportunity to name the team.
- Identified as CMR's principal sponsor on all of our promotional content.
- Provided with exclusive shop tours, recruiting workshops, brand placement, and unique opportunities to meet the team, all on request.
- All benefits of tiers below.

Gold Sponsor | \$10,000+

- Exclusive access to recruit our top engineers.
- Ability to host small group recruiting events with your company in our workspace.
- Interview our members about their engineering contributions in our workspace.
- All benefits of tiers below.

Silver Sponsor | \$5,000+

- Ability to attend CMR's General Body Meeting to publicize your company.
- Company will be recognized for their support on social media.
- Given access to the depth of talent across our team in our resume book.
- All benefits of tiers below.

Bronze Sponsor | \$1,000+

- Given access to CMR's resume book.
- Your company logo placed on our car, website and team banner.
- Sent CMR themed merchandise as a token of our appreciation.
- All benefits of tiers below.

Friends of Carnegie Mellon Racing

- Given recognition on Carnegie Mellon Racing's website.
- Access to subscription to all Carnegie Mellon Racing publications.
- Invited to our car's annual unveiling event.



Outreach & Community

Carnegie Mellon Racing attracts committed and passionate students who want to have a positive impact on the community. Every year, we attend and host events designed to inspire those around us to pursue engineering and STEM subjects. These include Girls in STEM conferences, international student groups, and engineering workshops for students.

Throughout the year, we do our best to showcase our racecars at local events, including the Pittsburgh Auto Show and Pittsburgh Vintage Grand Prix. This year, we also collaborated with a local high school to run several lectures directly related to how we design and manufacture our vehicles. More information about our community involvement can be found on our website.



Hear From Our Members!

53% of our engineers go on to work for a CMR sponsor

Sena Flo, Tesla

"No class has compared to the hands-on experience I've had through CMR. As the 24e Steering Lead, I was in charge of designing the entire system from the ground up, from CAD to manufacturing, **CMR has given me a greater understanding of the engineering design process through applicable real-world skills.** Not only have I grown in my technical understanding, but also in my interpersonal skills. These have been quintessential when working on a large team at my internship at Tesla."



Sena Flo, the steering lead for our 2024 vehicle, 24e.



Aaron McKenzie, the Aerodynamics and Composites captain for our 2022 vehicle, 22e and our 2020 vehicle, 20e.

Aaron McKenzie, Blue Origin

"Starting in the aerodynamics team with little prior knowledge, I learned to break down complex problems from first principles. **After my internship at Blue Origin, I went on to work there full time.** My experience didn't only help me grow as an engineer, but also into a leader that is able to understand the strengths and weaknesses of my team."

Varun Rajesh, Optiver

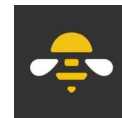
"What drew me to join CMR was its collaborative culture and the opportunity to take on new challenges in a fast-paced environment. I've found that I thrive in such settings, which ultimately led me to pursue a career in high-frequency trading at Optiver. During my internship there, I had the opportunity to work alongside some of the most talented and driven traders and engineers. **The experience sharpened my ingenuity and significantly contributed to my growth as an engineer.**"



Varun Rajesh, the VP of Energetics for our 2024 vehicle, 24e.



2024-2025 Sponsors



Mr. Jason Pettengill



Contact Info

Executive Board

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Media



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