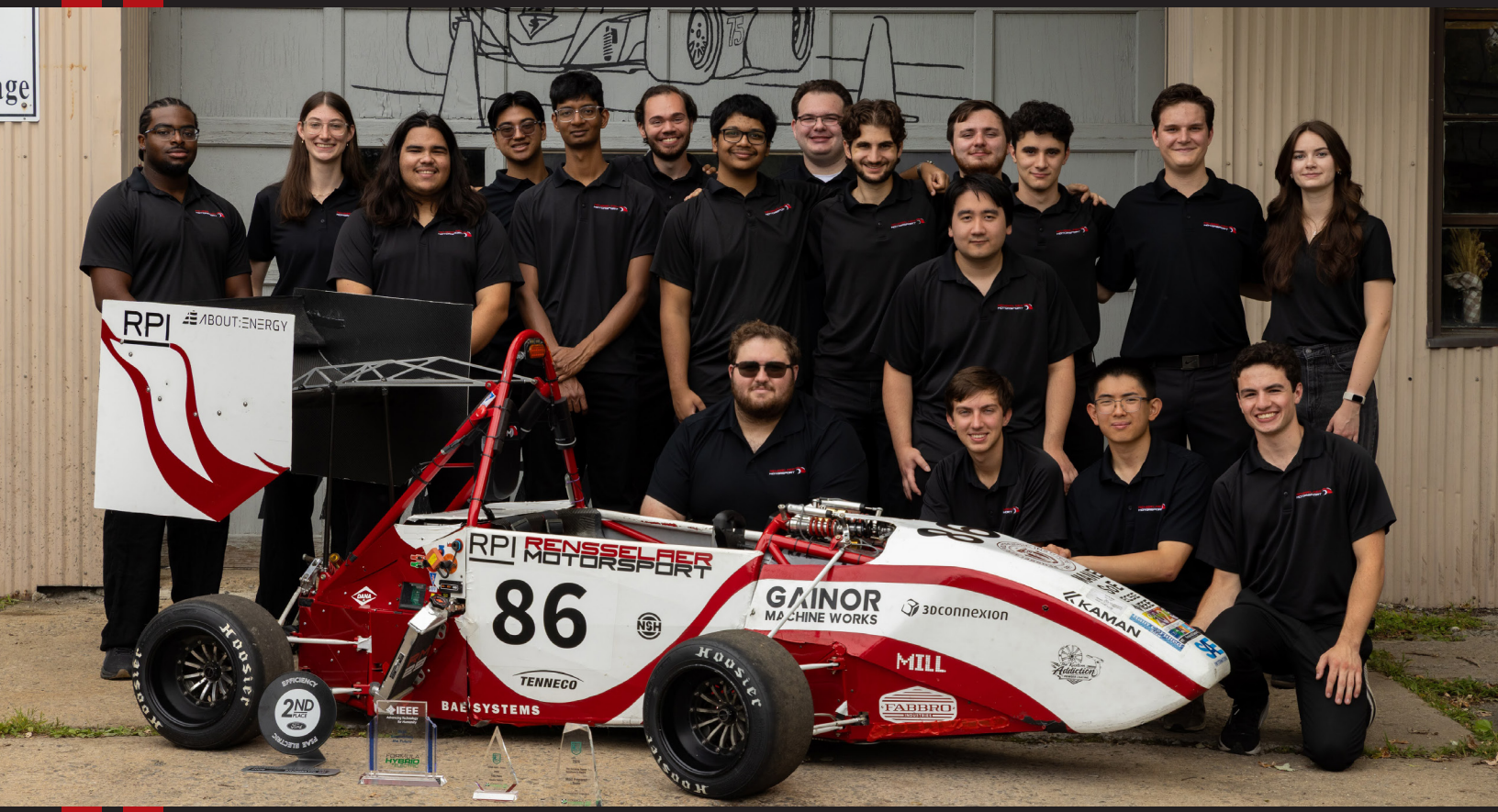


RENSSELAER MOTORSPORT

2026-2027 Sponsor Packet









We are Rensselaer Motorsport, Rensselaer Polytechnic Institute's Formula SAE Electric team. Our team is dedicated to engineering excellence through the design, analysis, manufacturing, and racing of a formula-style electric vehicle, built entirely by students from the ground up. In 2022 we transitioned to a fully electric powertrain in response to the rapidly evolving automotive industry. This transition has challenged us to expand our technical capabilities and innovate across every aspect of vehicle design and manufacturing. Despite being a relatively small team of approximately 40 full members, we have demonstrated our ability to compete at a high level, with our latest vehicle, RM29, placing 5th out of 20 teams at Formula Hybrid + Electric in New Hampshire and 21st out of 108 teams at Formula SAE Electric in Michigan.







2026 Accolades

21st Place - FSAE Electric Michigan

5th Place - Formula Hybrid + Electric

2nd in Efficiency - FSAE Electric Michigan

IEEE Engineering the Future Award - Formula Hybrid + Electric

Scrutineer's award - Formula Hybrid + Electric

Test Equity award - Formula Hybrid + Electric

Completed 22km Endurance - FSAE Electric Michigan



Building off last year's success, Rensselaer Motorsport is carrying the same knowledge and dedication into our latest challenger, RM30. By using the lessons learned from the previous season and the data gathered from running RM29, we will design and build a car that achieves our 2027 goals, shown below.

FSAE 2027 Goals

Top 15 Overall
Top 25 Design
Top 25 Cost
Top 15 Presentation
Top 20 Acceleration
Top 20 Skidpad
Top 20 Autocross
Top 15 Endurance
Top 10 Efficiency
Top 5 Formula Hybrid + Electric

August - October — **Design**



Weight — — — *200 Kg*

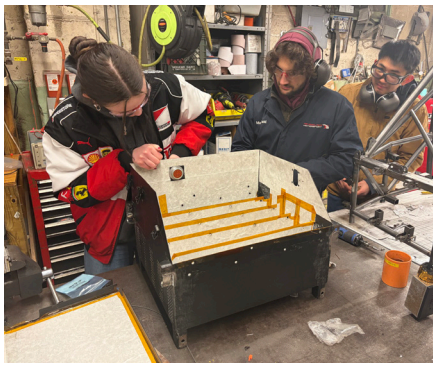
Torque — — — *260 Nm*

Power — — — *80 kW*

Voltage — — — *571 V*

November - March — **Manufacturing**





April — **Testing**



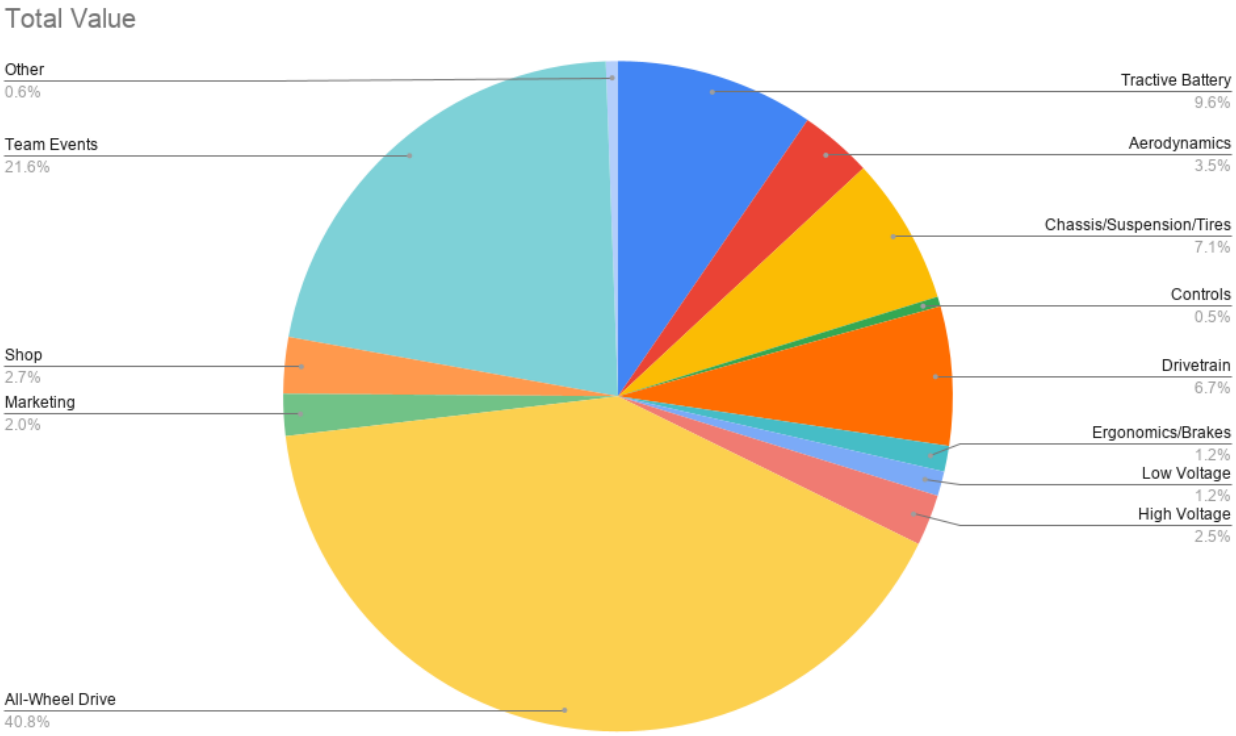
April 26 - 30th — **Formula Hybrid + Electric**

RM30 will feature a brand new battery design as well as improved aerodynamics, electrical systems and overall quality.

June 1 - 5th — **Formula SAE Electric**

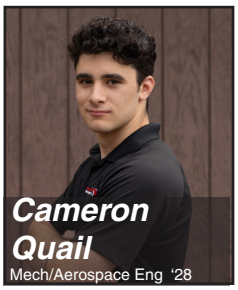




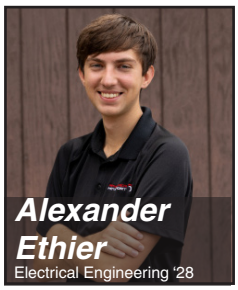


Rensselaer Motorsport allocates its budget across vehicle subsystems as well as competition events, shop operations, and marketing. Subsystem costs include design, components and materials, and manufacturing, with each area requiring careful planning and resource management. As we prepare to transition to an all-wheel drive drivetrain in 2028, a significant portion of our budget is being dedicated to this subsystem to support the acquisition of a complete set of in-hub motors and corresponding inverters. Given the substantial costs of developing, manufacturing, and competing with a racecar, our team prioritizes responsible budgeting and diligent financial management throughout the year to maximize the impact of every dollar invested in the program.

Subsystem	Budget
Tractive Battery	$13,000
Aerodynamics	$5,000
Chassis/Suspension/Tires	$9,000
Controls	$1,000
Drivetrain	$7,000
Ergonomics/Brakes	$1,000
Low Voltage	$2,000
High Voltage	$3,000
All-Wheel Drive	$40,000
Marketing	$1,000
Shop	$4,000
Team Events	$23,000
Total	$109,000.00



Team Lead



Electric Vehicle Lead
High Voltage Lead



Vehicle Dynamics Lead



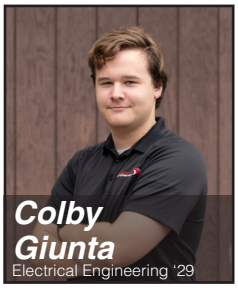
Chief Information Officer



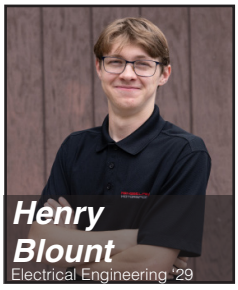
Drivetrain Lead



Sr. Tractive Battery Lead



Jr. Tractive Battery Lead



Low Voltage Lead



Sr. Chassis Lead



Shop Manager



Sr. Suspension Lead



Jr. Suspension Lead
Safety Officer



Ergonomics Lead



All Wheel Drive R&D Manager

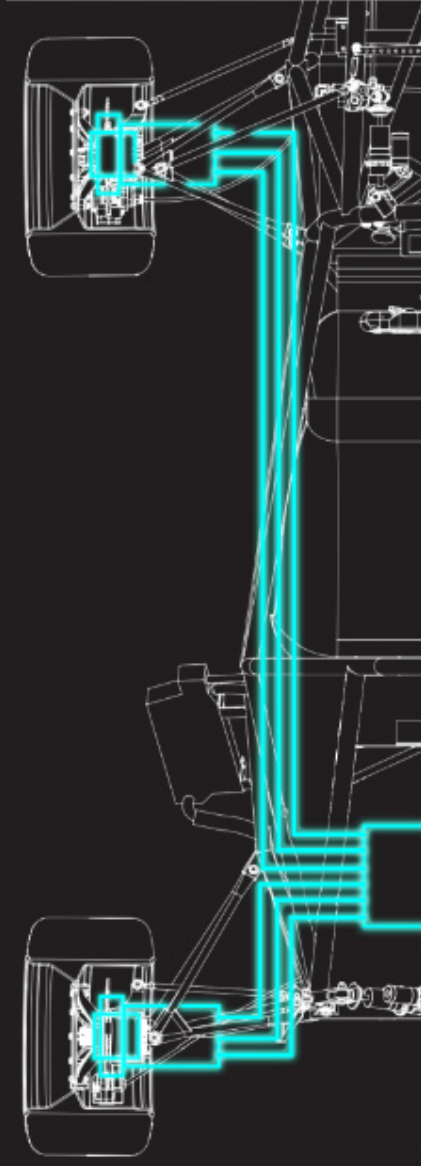


Aerodynamics Lead



Business Lead

Transitioning to All-Wheel Drive



For the 2027–2028 season, Rensselaer Motorsport is transitioning to an all-wheel-drive hub-motor drivetrain as we continue to push toward becoming a consistent top-performing Formula SAE team. Our long-term goal is to become a regular top-10 finisher by 2030, and this transition is an important step toward achieving that goal. At Formula SAE Electric, 13 of the top 20 teams currently utilize all-wheel drive hub-motor systems, demonstrating the performance potential of this architecture at the highest level of collegiate competition.

The new all wheel drive system will utilize four in-hub motors connected to each wheel through planetary gearboxes. This new system is not simply adding new motors, but requires the entire corner assemblies to be redesigned, custom gear sets to be developed, and custom motor cooling to be implemented. In addition, torque vectoring algorithms will be developed, tested, and tuned to take full advantage of the all wheel drive capability.

Beyond its performance advantages, the transition will challenge our team to develop new expertise in areas like vehicle dynamics, controls, powertrain integration, and electric vehicle technology. The knowledge and experience gained through this project will strengthen not only RM31 and future vehicles, but also the engineering skills our members carry into their careers.

AWD

Goals

Place top 20 in the 2028 FSAE EV competition

Place top 15 in the 2029 FSAE EV competition

Place top 10 in the 2030 FSAE EV competition

Provide student engineers with hands-on experience developing well-engineered products that demonstrate their technical capabilities and can be showcased in professional portfolios and resumes.

Sponsor Tiers

	Platinum $7,500+	Gold $5,000+	Silver $2,500+	Bronze $1,000+
Access to Monthly Newsletter	✔	✔	✔	✔
Logo on our Website	✔	✔	✔	✔
Logo on Car	XL	Large	Medium	Small
Invitations to Events	All Events	All Events	Rollout	Rollout
Access to Student Resume Pool	✔	✔	✔	✔
Logo on Team Merchandise	✔	✔	✔	
Featured Post on Social Media	✔	✔		
Personal Meeting With Team	✔			

Why Sponsor Us?

Becoming a sponsor not only helps our team of students engage in something we are all passionate about. When you sponsor us you are a part of the team's success. As a partner you will gain access to our resume pool and our talented team of engineers, as well as exposure to some of the top companies in the world. RPI and Formula SAE Electric are very notable and respected organizations with a large network of alumni and companies all looking to support one another. Your contribution goes way beyond a monetary value, we value the collaboration and expertise that comes from sponsors and are looking forward to expanding these values with you.

How to Donate

You can make donations by visitng: https://shorturl.at/MJMe
Hit give now and make your designation to Rensselaer Motorsport.
Please feel free to reach out with questions via email.

All checks can be made out to: **RPI Formula SAE**
Mail all checks to: **MANE JEC 5049 110 8th St., Troy, NY 12180**
ATTN: Harrison / Dingman

Note: Rensselaer Motorsport is a 501(c)(3), all contributions to the team are tax deductible.





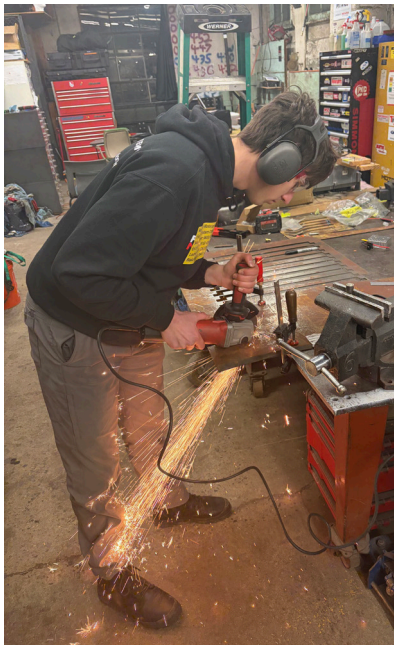


















Contact Us

Benjamin Dingman
Business Lead
dingmb@rpi.edu

Cameron Quail
Team Lead
quailc@rpi.edu

Thank You!

Rensselaer Motorsport EST.1992
rensselaermotorsport.com
RPI Formula SAE, MANE JEC 5049, 110 8th St., Troy, NY, 12180