

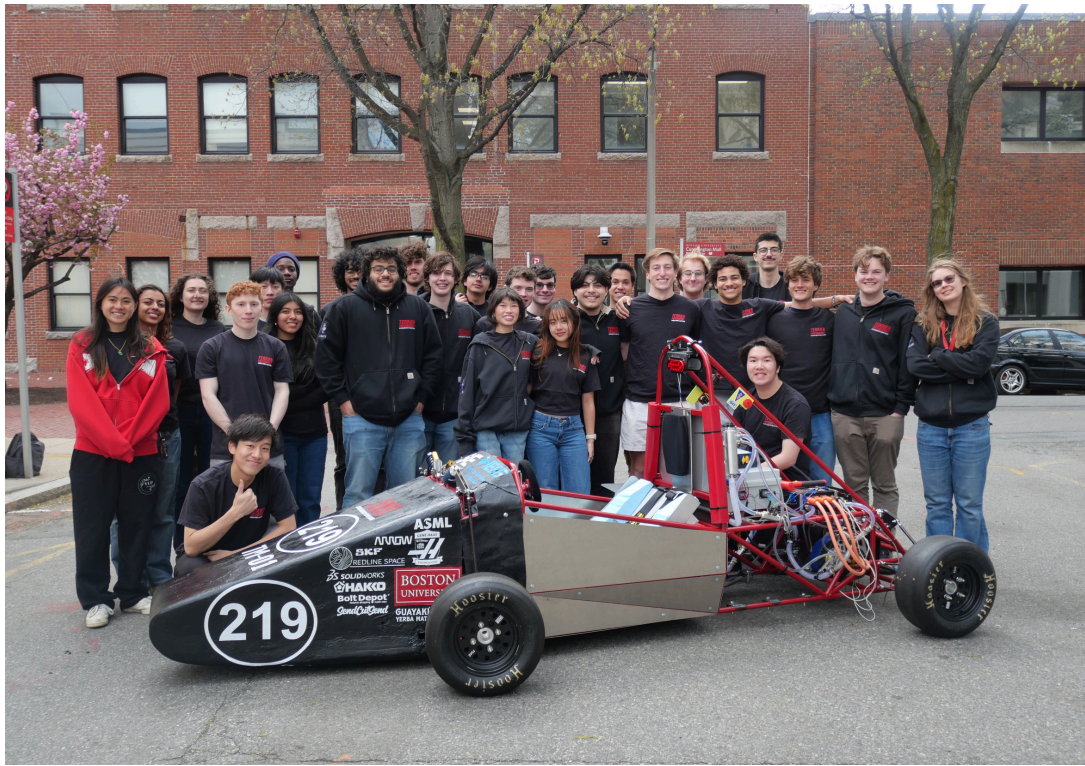
TERRIER™ ***MOTORSPORT***



TERRIER MOTORSPORT
2025-26 INFO PACKET

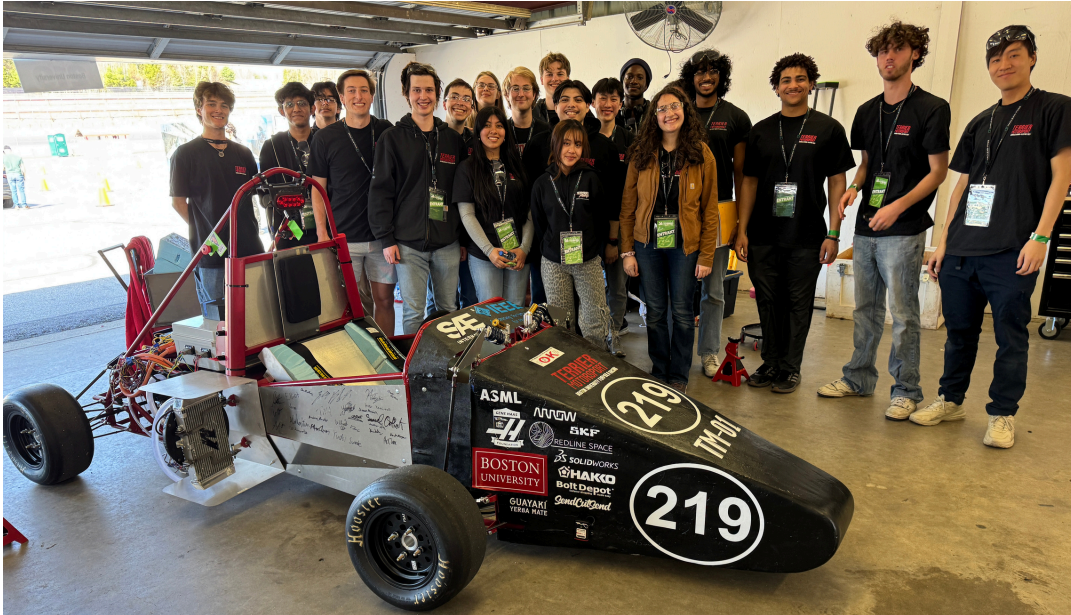
OUR TEAM

Terrier Motorsport is Boston University's student-run Formula SAE Electric team, operating under the College of Engineering. Each year, our 50+ members take on the challenge of planning, designing, and building a fully electric, Formula-style race car from scratch to compete at the Formula Hybrid + Electric competition in New Hampshire. It's an ambitious project that reflects the real demands of motorsport engineering: tight deadlines, strict regulations, and no room for shortcuts are all challenges that our engineers face and tackle in every task.



While we're primarily an engineering team, Terrier Motorsport has become a community that reflects the entire BU campus. Our membership has grown by more than 130% in the past year, bringing together students from across the world and across disciplines, from mechanical and electrical engineering to computer science, and even business. That diversity is what makes us unique: every member has a role in pushing the project forward, whether it's designing critical systems, securing sponsorships, or preparing the car to hit the track.

OUR HISTORY



Terrier Motorsport was founded in 2015 by six engineering students who wanted a hands-on challenge outside the classroom. Starting small, the team fielded early static-only cars at the Formula Hybrid + Electric competition and slowly built up the knowledge, tools, and structure needed to take on full vehicle builds. Over the years, the club rebranded, restructured its leadership, and experienced significant growth, bringing in members from across Boston University, not just engineers, but students in business, sciences, and the arts.

That growth hasn't come without setbacks. Pandemic disruptions and technical hurdles limited past cars like Scarlett to static events, and last year, TM-01 missed the chance to run dynamic events after delays in finalizing the battery system. But those challenges have sharpened our process. Membership has surged by over 130%, our teams are better organized, and we're entering this season with a completed car, a stronger technical foundation, and clear momentum. After years of persistence, Terrier Motorsport is back on track — stronger than ever and ready to compete head-on.

OUR SUB-TEAMS

Mechanical

Wheels

Wheel and frame assembly, design and manufacture mainframe, wheel hubs, brake systems, and the pedal box

Suspension & Chassis

Design and manufacture a chassis, connecting all components into one functional unit

Aerodynamics

Design and manufacture custom bodywork and aerodynamics structures

Electrical

Tractive System

Design and assemble high current systems including the battery and motor

Low Voltage

Design, manufacture, and test control systems to ensure safe operation

Processing Systems

Monitor and log real-time data from the car, as well as design a display system for the driver to monitor stats

Business & Operations

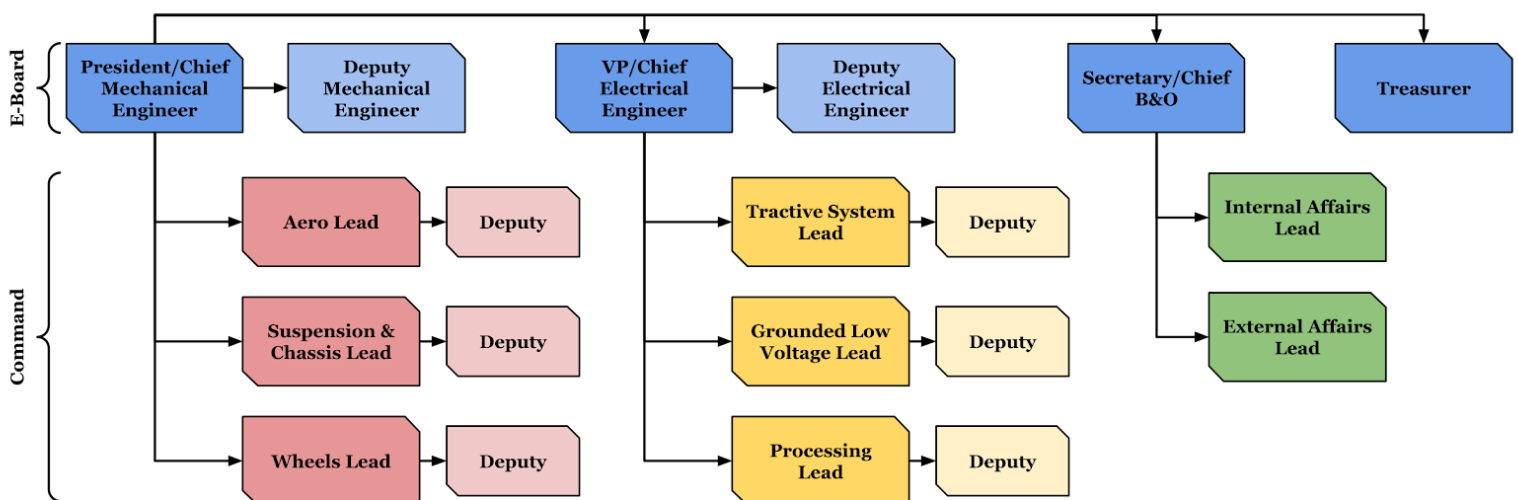
External Affairs

Manage events and communication *outside* of the BU community

Internal Affairs

Manage events and communications *within* the BU community

Terrier Motorsport Chain of Command – 2024



TM-01

TM-01 is our latest fully electric, Formula-style race car and the first competition-legal car we've brought to track in nearly a decade. After past projects like Scarlett and Stella, which faced setbacks and limited us to static events, TM-01 marked a major step forward when we presented it at the 2025 Formula Hybrid + Electric competition. Building on the feedback we received, the team is now focused on refining and upgrading the car to boost reliability, safety, and performance.

Below is a quick overview of TM-01's core specs:



Type: All-electric, Formula-style race car

Weight: ~300 kg (with driver)

Top Speed: ~30 mph (48 km/h)

Acceleration: 0–30 mph in ~3 seconds

Motor: EMRAX electric motor, 20 kW power

Battery: Custom lithium-ion pack, 5.1 kWh, 255 V
(currently being updated)

Chassis: Steel tube frame, lightweight and safe

Suspension: Push-rod system with Öhlins shocks

Brakes: 4-wheel disc brakes

Body: Fiberglass nose cone + aluminum panels

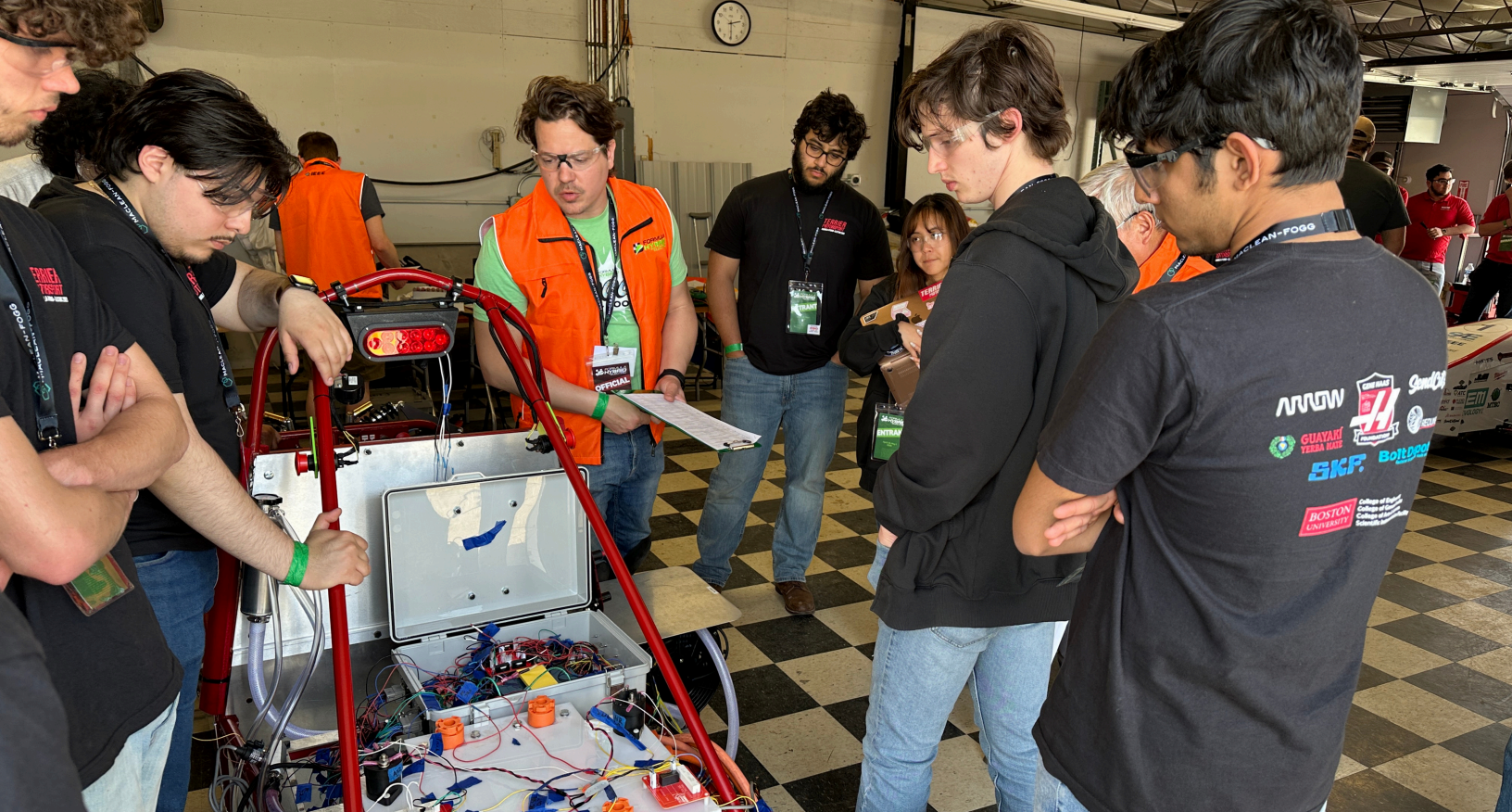
Current Sponsors

Terrier Motorsport offers sponsors brand visibility, media exposure, and the chance to support student engineers preparing for future careers. Partner logos are featured on the car, apparel, and digital platforms, while sponsorship directly fuels innovation and competition readiness. We thank all our current sponsors – without their support, this project would not be possible.



College of Engineering
College of General Studies
College of Arts and Sciences
Scientific Instrumentation Facility





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