UBC SUPERMILEAGE

2024/2025 Sponsorship Package

Our Team

65 Students | (Gasoline Prototype Vehicle) | **1st** Place in Efficiency(2023 CSQ)

UBC Supermileage is a team of interdisciplinary students committed to using and enriching our educational experience to tackle the enduring challenges we face in the pursuit of efficiency.

We design and build three energy efficient vehicles to compete in the Shell Eco-marathon Americas (SEMA) and the Compétition Supermileage de Québec (CSQ). Throughout this process, our dedicated members are educated in real-world technical design, as well as honed-in collaboration and project management skills.

Our Cars

Gasoline Prototype

The Prototype is designed to push the limits of fuel efficiency in the internal combustion engine (ICE) and hydrogen fuel cell energy categories. The driver lies in a supine position and controls the three-wheeled vehicle with novel steering mechanisms designed for each competition. The Gasoline Prototype's best mileage in recent years is 2229 mpg

Our Cars

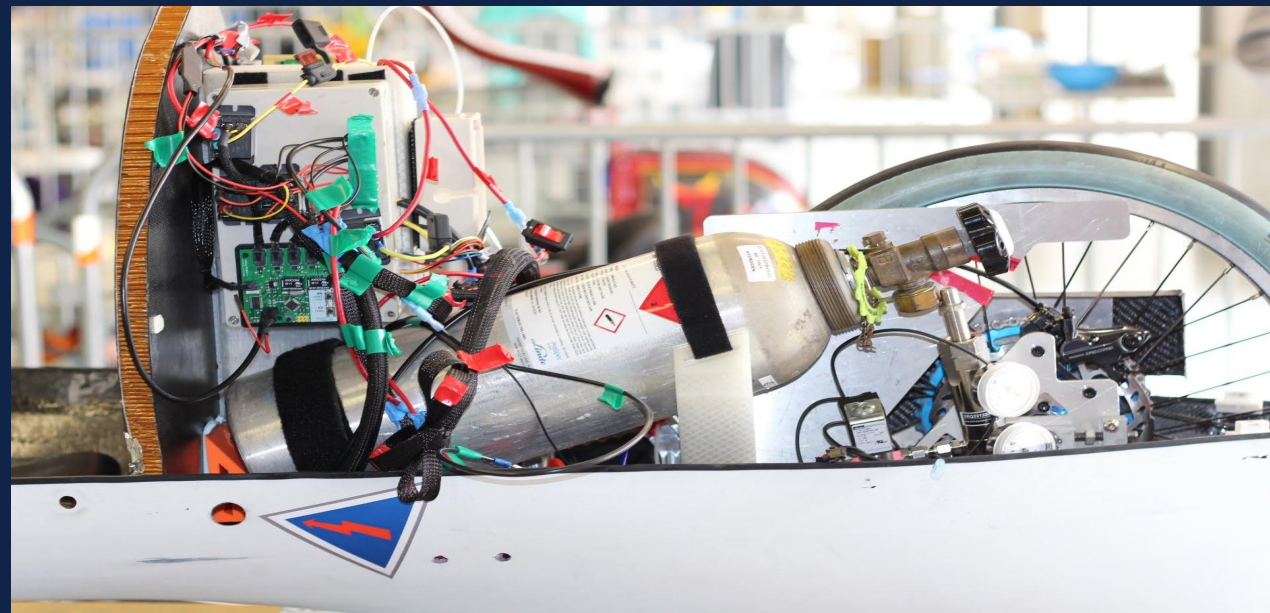
Urban Concept Vehicle

The Urban Concept EV is designed to mimic the form and function of an everyday commuter vehicle. With the future of the automotive industry dramatically shifting toward zero-emission vehicles, we converted our gasoline internal combustion engine Urban Concept to use a battery-electric propulsion system.

Our Cars

Hydrogen Fuel Cell Prototype

The Hydrogen Fuel Cell Prototype is the latest edition to our mission to explore and optimize sustainable energy alternatives. As we begin to redesign our custom built PEM Fuel Cell stack, we're excited to unlock the full potential of hydrogen technology and play a crucial role in shaping a greener and more advanced future.



Our Plan

For the 2024-2025 season, each technical division has prioritized a variety of projects to continuously improve our design and technical performance.

Electrical

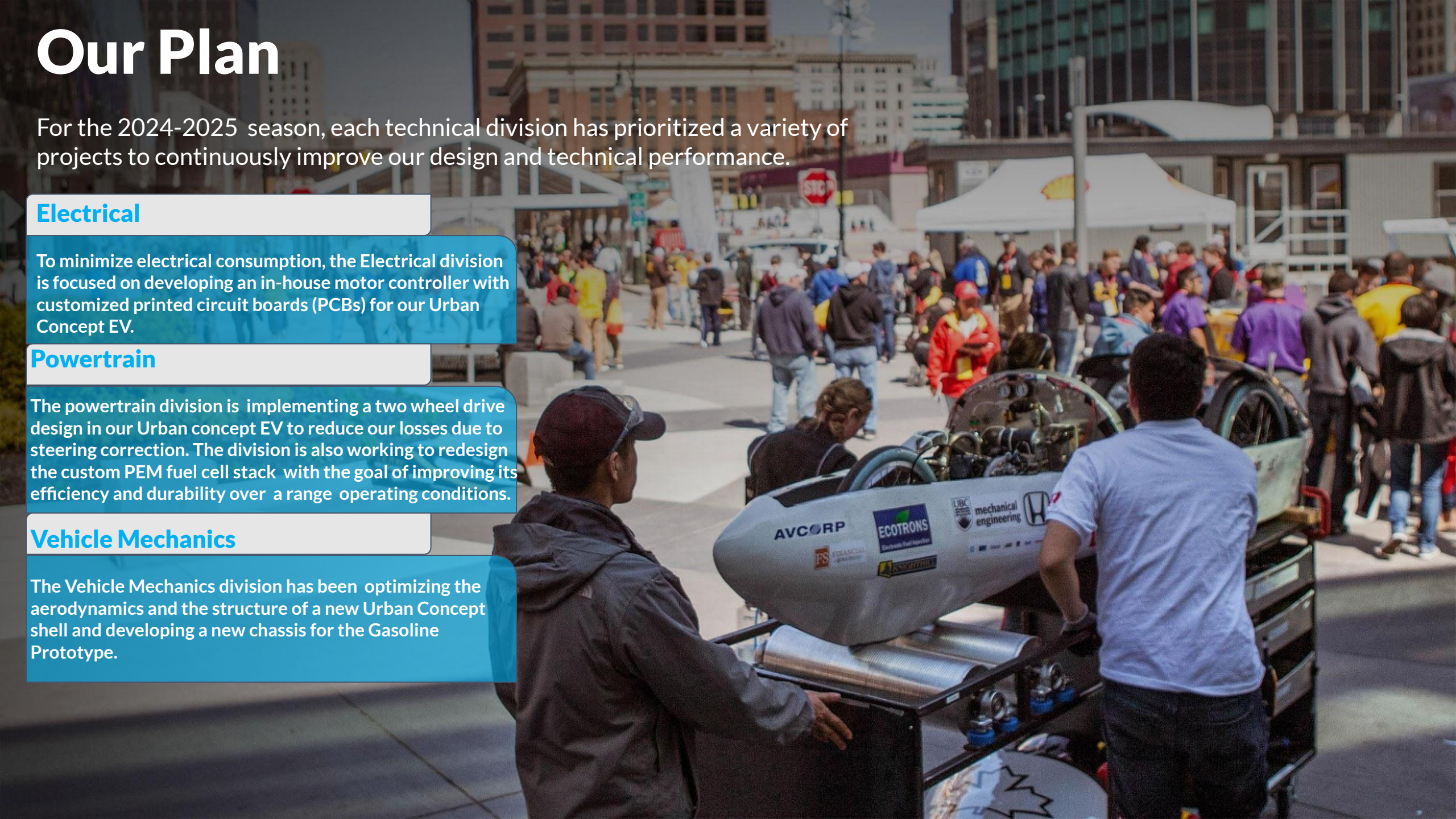
To minimize electrical consumption, the Electrical division is focused on developing an in-house motor controller with customized printed circuit boards (PCBs) for our Urban Concept EV.

Powertrain

The powertrain division is implementing a two wheel drive design in our Urban concept EV to reduce our losses due to steering correction. The division is also working to redesign the custom PEM fuel cell stack with the goal of improving its efficiency and durability over a range operating conditions.

Vehicle Mechanics

The Vehicle Mechanics division has been optimizing the aerodynamics and the structure of a new Urban Concept shell and developing a new chassis for the Gasoline Prototype.



Our Commitment

Efficiency is at the core of our mission. We strive to make each form of energy we utilize in our prototypes as efficient as possible. Whether it's optimizing our electric battery' charging and discharging capabilities, maximizing our gasoline engine fuel efficiency in endurance runs or improving the performance of our custom hydrogen fuel cell, we are constantly pushing the boundaries to achieve the highest level of efficiency in all our designs.

Our team is driven by the belief that a greener, cleaner future is not only possible but necessary. By pushing the boundaries in all three types of our vehicles, we aim to showcase the potential of sustainable energy alternatives and technical design. By training conscientious engineers, developing unique car prototypes, and striving for maximum efficiency, we are making significant strides in advancing sustainability in the automotive industry.

How You Can Help

UBC Supermileage pursues new and ambitious projects every year. With the support of our sponsors, we can continue to elevate our team to the next level. The four main ways you can contribute are:

Materials and Equipment

Hydrogen, metal stock, composite fabrics and consumables, sandwich cores (foams & honeycombs), connectors, tools, personal protective equipment, tape, and other adhesives.

Project Services

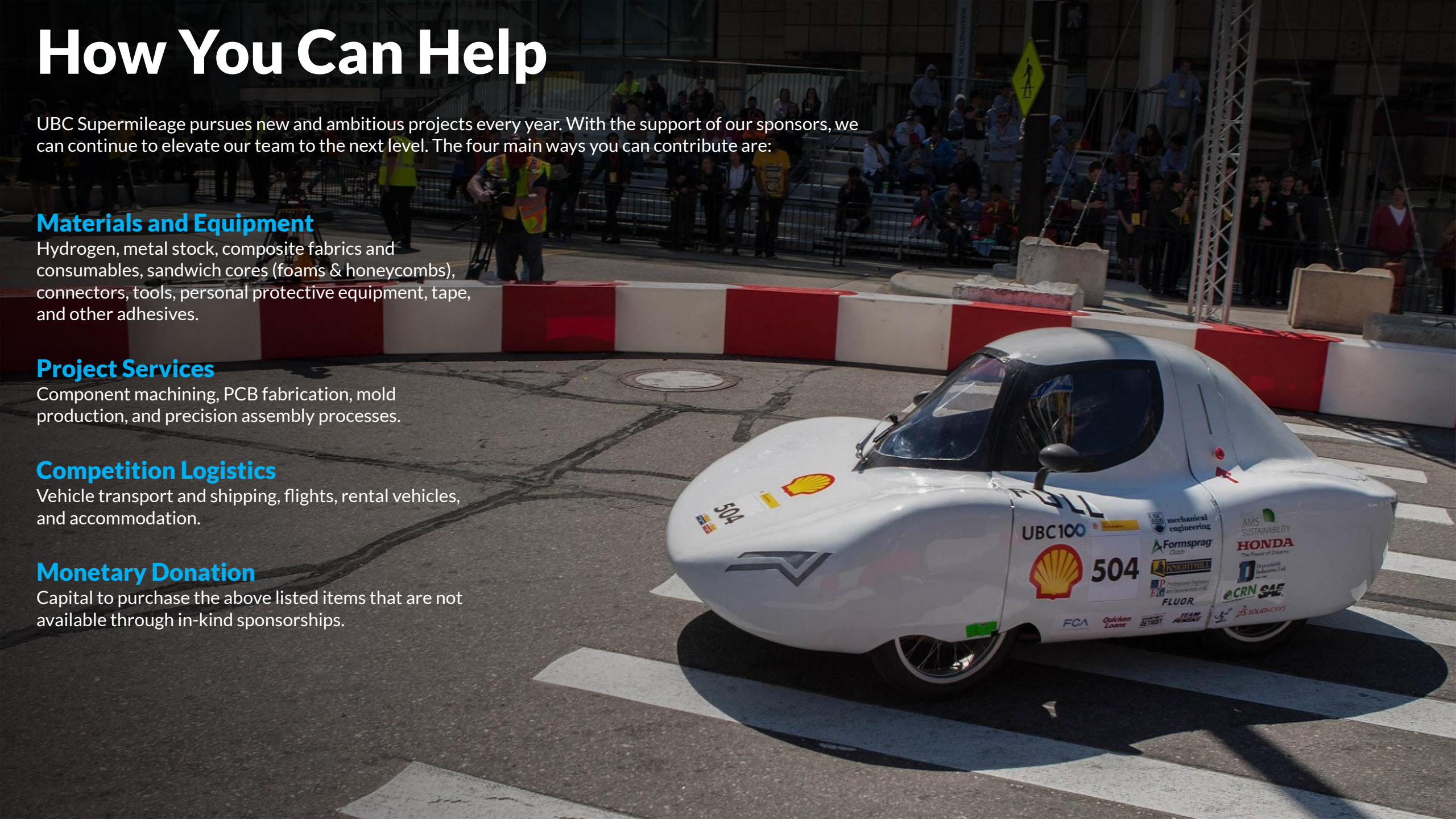
Component machining, PCB fabrication, mold production, and precision assembly processes.

Competition Logistics

Vehicle transport and shipping, flights, rental vehicles, and accommodation.

Monetary Donation

Capital to purchase the above listed items that are not available through in-kind sponsorships.



Sponsor Benefits

UBC SUPERMILEAGE	Select $500-$1499	Bronze $1,500-$2,999	Silver $3,000-$7,499	Gold $7,500-$14,999	Platinum $15,000-$19,999
Vehicle Logo Size[1] (in^2)	Up to 10	Up to 20	Up to 30	Up to 40	Up to 50
Website Logo[2]	✓	✓	✓	✓	✓
Sponsor Appreciation Night	–	✓	✓	✓	✓
Social Media	–	Thank-you	Thank-you/ Special Request[3]	Thank-you/ Special Request[3]	Thank-you/ Special Request[3]
Workshop Tour	–	–	✓	✓	✓
Preferred Vehicle Logo Placement	–	–	–	✓	✓
Track Day Invitation	–	–	–	–	✓

We greatly appreciate the generosity of our sponsors and strive to make our relationships mutually beneficial. The table above outlines how we can use our 2000+ social media followers, community presence, and competition performance to represent your company.

1. Vehicle logos will be displayed at the next SEMA competition following your contribution.
2. Website logos are renewed in the summer after the competition year, allowing your logo to be displayed for a full calendar year on our website.
3. Please contact us to discuss any unique promotional requests.

Thank you to our 2023-2024 sponsors.

Daniel Family Foundation

UBC Engineering Design Team Council

UBC Professional Activities Fund

UBC mechanical engineering

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