SUPERMILEAGE

Sponsorship Package '19

Our Team

WHO ARE WE

We are Ryerson SAE Supermileage. A design team consisting of 15 highly motivated students from undergraduate and graduate program that seek to apply theoretical knowledge to a real world design problem, preparing them to be a well rounded professional in their respective field.

WHAT DO WE DO

Our primary goal is to build an advanced fuel-efficient vehicle for the various competitions we participate in. There are sub-teams that work on specific aspects of the car such as the aerodynamics team, mechanical team, engine team, and the electrical team. The sub-teams use SolidWorks and ANSYS Fluent to prepare and optimize the designs before the manufacturing of the car.

The Two Compeitions

SAE Supermilage

SAE Supermileage is an engineering design competition hosted in Marshall, Michigan, United States of America, that challenges teams around the world to design and manufacture a single-person, high fuel-efficient vehicle complying with all the rules and safety regulations.

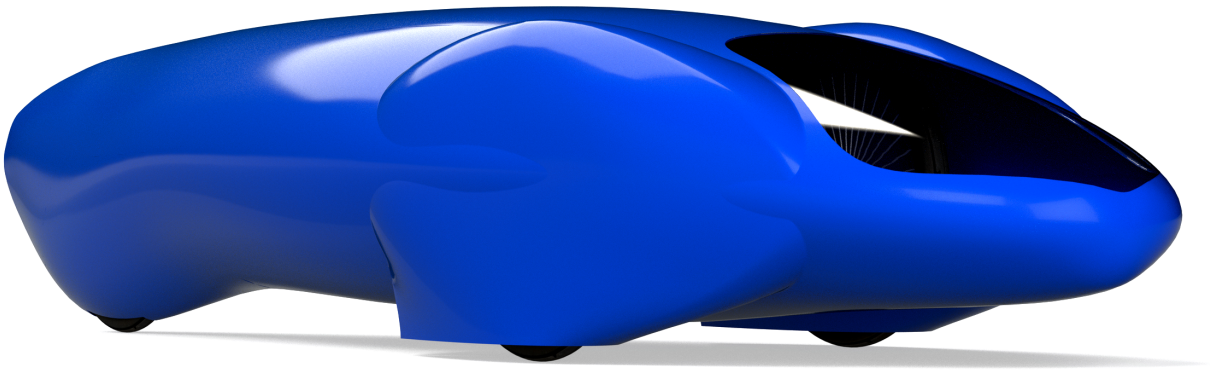
In June 2018, on 39th annual SAE Supermileage Competition, we Ryerson SAE Supermileage placed 6th for high fuel efficiency with the help of dedicated student team and generous sponsors.

Shell Eco Marathon

Shell Eco Marathon is another prestigious engineering design competition held in a different location in either North or South America every year. Over 1200 students participated in the 2018 competition. Similar to SAE Supermileage, students must build a car and race them on a track., to see which car can run with the least amount of energy. Cars must also pass a technical inspection to ensure all safety features and rules are met.

We participated in the Shell Eco Marathon Americas 2017 held in Detroit, in the Internal Combustion Energy (gasoline) category.

Our Car



3.3 m	0.69 m	12 kg	1850.44 mm	527.32 mm
length	Width	Weight	Wheelbase	Track width

[specifications based on simulations]

Drag coefficient	0.1
Frontal area	0.31 m^2
Overall Height	0.53 m
Total internal volume	0.544 m^3

Our Car

Powertrain

- Briggs and Stratton J206
- Custom Ignition System
- 9:1 Compression Ratio
- 2.7 in Bore
- Custom EFI System
- Ecotron 2 ECU
- 2.2 in Stroke
- Centrifugal Clutch

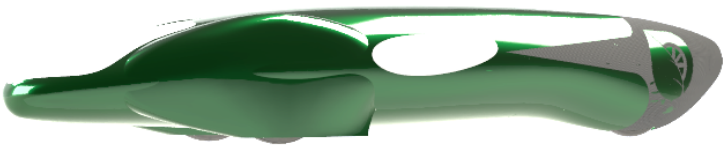
Steering System

- Knuckles are made of carbon fiber composite
- Type of Aluminum for other components is Al 6061
- Maximum steering angle ~ 26 degree
- Steering dimension 572.00 mm x 76.20 mm x 96.27 mm
- Legroom 14.7 in

Suited with cable disc brakes and intended to have a steering wheel attached at universal joint

Aerodynamics and Structure

- Brand new Carbon Fibre Monocoque
- < 1 lb of Drag at 36 km/h
- High Strength and Rigidity
- Spacious Interior
- CFD Analysis Using Solidworks Flow Sim



Ways you can help

Platinum ($5000+)

- Rewards of Previous Tiers
- Large company logo placed on both sides of competition car.
- Large company logo advertised on team apparel

Gold ($3500-$5000)

- Rewards of Previous Tiers
- Large company logo on competition car

Silver ($1500-$3500)

- Rewards of Previous Tiers
- Medium sized company logo on competition car
- Company Logo advertised on team apparel

Bronze ($500-$1500)

- Signature Rewards
- Company logo on team website and other social media platforms
- Small sized company logo on one side of competition car

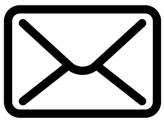
Signature (< $500)

- Company text on Team Website
- Company featured on Team blog Post blog post

IN-KIND (NON-MONETARY SUPPORT/DONATION)

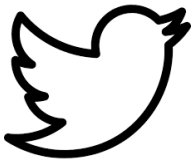
Any support will be gladly accepted. However, we welcome any technical expertise, materials/ equipment and facility space. Any questions regarding sponsorship arrangements can be discussed with our team.

Contact us



supermileage@ryerson.ca

https://ca.linkedin.com/company/ryersonsupermileage



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