



Contact Us at sponsor@supermileage.ca for any questions or additional information.



The UBC Supermileage Team is a group of 70 dedicated engineering students working to design and build fuel efficient, gasoline-powered vehicles for the Shell Eco-Marathon Americas and the Society of Automotive Engineers (SAE) Supermileage competitions. Our diverse team includes technical students from mechanical, geological, eng-physics, integrated, electrical, civil, materials engineering as well as business and science students seeking to make a difference. Within this sponsorship package, you will be able to find the following:

- A Message from the Captain
- Competition Descriptions
- Past Achievements
- Overview of Vehicle Designs
- Our Goals for this Year
- How You Can Support Us



THE PURSUIT OF EFFICIENCY

Since 2001, our team has designed and built multiple super-mileage vehicles and has achieved fuel mileages of up to 3145 mpg (1337km/L). We are passionate about effecting positive change on the environment with our engineering education and have actively participated in community and professional events to raise awareness for sustainable transportation. With a proven track record of continuous success, we are looking to grow our industry relations and further improve on our competition performances!

WHY WE NEED YOU!

As a student design team, we rely heavily on the support and funding of local community and industry partners. Your support gives us the opportunity to practice engineering outside the classroom and grow as young professionals. Specifically, your contribution allows us to purchase material and equipment for the design and development of our vehicles.

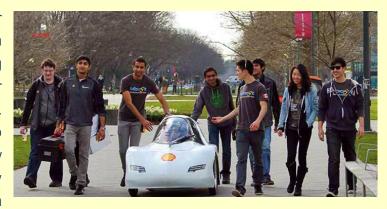


MESSAGE FROM THE CAPTAIN



Thank you for your interest in the UBC Supermileage Team! I am a fourth year Mechanical Engineering student with a Commerce minor in my final year at UBC. I joined the UBC Supermileage team two and a half years ago seeing it as the perfect fusion of my two main interests: sustainable technologies and automotive innovation. Since joining the team, the supportive atmosphere has not only allowed me to expand my repertoire of technical skills but also develop myself as a socially conscientious leader. As one of the most successful teams at UBC, the UBC Supermileage team has granted countless students a chance to share their solutions to the growingly pertinent issue of energy sustainability and has embraced the innovative spirit of our student community.

As captain this year, I want to maintain our reputation as one of the top teams in competition but am also intent on providing technical development opportunities for our budding engineers and business students alike. In conjunction, we plan to extend our reach to the public by attending as many community events as possible and raise sustainbility awareness. I would also like to see our team



through two competitions for the 2016 season; both the Shell EcoMarathon and SAE Supermileage. Our technical goals this year include the development of a new engine system, the design of an improved Urban Concept class aerodynamic shell, and pioneer a 2-year monocoque project for our Prototype vehicle.

Our members are passionate, driven, encouraging and are intent on pushing the boundaries of technical innovation to create lasting change. The simultaneous construction and R&D of two competitive vehicles is a rewarding process but does lend us a heavy financial strain. We welcome any contributions and are greatly appreciative of our sponsors.

Thank you,

Nancy Chu

2015-2016 UBC Supermileage Team Captain



THE COMPETITIONS

The UBC Supermileage Team has competed internationally at the Shell Eco-Marathon Americas and the Society of Automotive Engineers Supermileage competition. Both competitions challenge teams to design, construct, and test cutting-edge, energy efficient vehicles.

COMPETITION JOURNEY

Starting in 2001, the team competed in the SAE Supermileage Competition with the "Mark" series of Prototype class vehicles. From 2003 to 2006, the team dominated the podium with first place finishes and then set its sights on the more comprehensive Shell Eco-Marathon Americas (SEMA) Urban Concept challenge. In 2010, the team debuted in the Urban Concept class and, despite not completing a full run, the vehicle achieved an impressive fuel mileage. Since then, the team has iteratively improved the Urban Concept design to achieve consistent podium finishes. In 2013, the team decided to revive the development of prototype vehicles as well as continue development of the team's Urban Concept vehicle to allow more learning opportunities for team members. Upon competing in both vehicles classes in the SEMA competition, the team finished in 2nd and 5th place. Last year, the team continued to compete in both vehicle classes despite a crate incident that lost us both our 2014 vehicles.

	Date	Result	Mileage
URBAN	2015	2nd Place	0.726L/100km (324mpg)
	2014	3rd Place	0.722L/100km (326 mpg)
	2013	2nd Place	0.408L/100km (577 mpg)
	2012	3rd Place	0.817L/100km (288 mpg)
	2011	4th Place	1.099L/100km (214 mpg)
	2010	DQ	1.438L/100km (163.5 mpg)
PROTOTYPE	2015	DNF	-
	2014	DNF	-
	2013	5th Place	0.170L/100km (1383 mpg)
	2008	4th Place	0.126L/100km (1865 mpg)
	2006	1st Place	0.075L/100km (3145 mpg)
	2005	1st Place	0.147L/100km (1608 mpg)
	2004	1st Place	0.135L/100km (1747 mpg)
	2003	1st Place	0.254L/100km (927 mpg)
	2002	4th Place	0.263L/100km (895 mpg)
	2001	9th Place	0.797L/100km (295 mpg)



SHELL ECO-MARATHON AMERICAS COMPETITION is open to student teams from across North and South America. It comprises both Prototype and Urban Concept class vehicles and multiple energy sources.



SAE SUPERMILEAGE COMPETITION is open to student teams from across North America with gasoline powered Prototype class vehicles.

URBAN CONCEPT class vehicles challenge students to create cars that more closely resemble real-life automobiles in appearance and functionality.

PROTOTYPE class vehicles encourage students to create a futuristic vehicle that maximizes fuel mileage with minimal design constraints.



OUR GOALS

PURSUIT OF EFFICIENCY

DESIGN AND BUILD TWO COMPETITIVE VEHICLES – The UBC Supermileage Team pushes for innovative vehicle designs and construction techniques that have made the team highly competitive. This year the team plans to tackle two competitions by fabricating a new engine system for the Prototype vehicle and supporting more members to competitions. A two-year design project to create a monocoque body will also commence this year, providing our team with new potential for energy saving innovation.



EDUCATION

CREATE MORE WELL ROUNDED ENGINEERS – The UBC Supermileage Team provides an inclusive environment for learning outside of the classroom. Senior member in various areas of vehicle design and development mentors junior members. The team's growing internal training sessions include CAD modeling tutorials, carbon fiber layup demonstration, and wind tunnel tests. Team members are not only exposed to learning in the technical areas, but also in teamwork, project management and professional development.













RAISING AWARNESS

The UBC Supermileage Team is passionate about creating sustainable transportation and wants to contribute by raising awareness about energy conservation. In addition to presenting at various conferences, the team actively participates in various teaching opportunities for high school and elementary school students through tours and science camps. The team intends to organize numerous community events throughout the year to promote project and environmental issues.



URBAN CONCEPT: ZOTICUS

STEERING

All components in the steering system are custom designed and fabricated to be as lightweight as possible. On the rare occasions when the brakes are applied, we use hydraulic brake calipers from mountain bikes with custom made rotors to fit our custom wheels.

BODY

Made of carbon fiber, the body is designed with CAD, and tested extensively using CFD software and scale models in the wind tunnel for aerodynamic optimization.

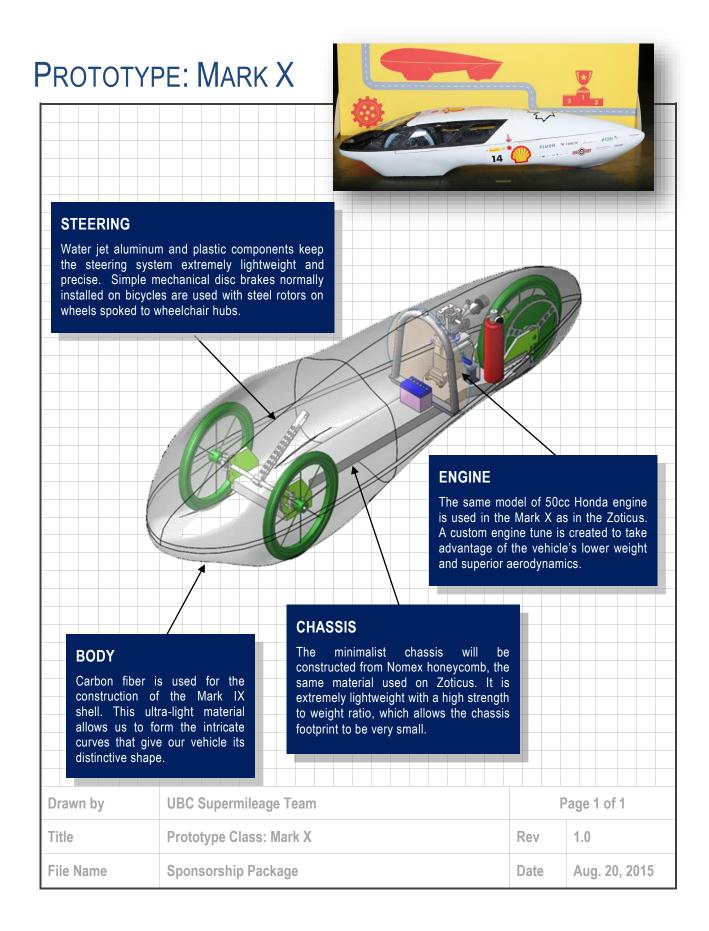
CHASSIS

The custom chassis is constructed from Nomex honeycomb. This non-metallic composite material is used extensively in aircraft construction. It is extremely lightweight and has a high strength to weight ratio, making the chassis both light and stiff.

ENGINE

The car uses a 50cc Honda GXH50 motor that, if left stock, has 2.1 hp. The stock carburetor has been replaced with a custom electronic fuel injection system to allow for engine tuning and increased fuel efficiency.

Drawn by	UBC Supermileage Team		Page 1 of 1
Title	Urban Concept Class: Zoticus	Rev	1.0
File Name	Sponsorship Package	Date	August 20, 2015



WHY GET INVOLVED?

We are hoping to develop relationships with industry organizations interested in offering their support. Partnering with us provides several benefits.

CAREER RECRUITMENT

The UBC Supermileage team consists of engineering students who demonstrate a passion for engineering design by taking initiative outside the classroom. Sponsorsing and meeting the team is a good opportunity to recruit engineering students who have already demonstrated commitment, professionalism and willingness to learn.

MEDIA COVERAGE

Every year UBC Supermileage partakes in media events that allow the team to be featured on newspapers and broadcasts. Last year, the team was covered in three episodes of a Global TV Series show in addition to being featured in local newspapers. Below are some highlights of the team's past media coverage.









"What do you get when you challenge a bunch of engineering student to build a green car. At the University of British Columbia you get ... [a] three wheeler that can travel 3145 miles on a single gallon of gas." – Daily Planet



"...a group of University of B.C. engineering students has designed a vehicle that will run from Vancouver to Halifax on \$5 worth of gas and fumes." – The Vancouver Sun



SPONSORSHIP LEVELS

UBC Supermileage Team enjoys partnerships with many companies every year. With the support of sponsors such as you, we are confident that we can achieve our goals this year and remain a highly competitive and impactful team.

Both monetary and non-monetary sponsorships, including technical support, are recognized annually and are greatly appreciated by the team. Each sponsor, regardless of status, will receive monthly email updates from the team and will have the opportunity to meet with team members and tour the team's workshop. Sponsorship status is detailed below but we are happy to discuss other partnership arrangements. For more information please contact us at sponsor@supermileage.ca

GOLD (\$5000 OR MORE)

Gold sponsors will have a large logo displayed in a dominant position on both competition vehicles. Also, the logo of your business will be featured on the team's web page and promotional materials.

SILVER (\$1000-\$4999)

Silver sponsors will have a medium-sized logo displayed with preferential placement on both competition vehicles. Also, the logo of your business will be featured on the team's web page and promotional materials

BRONZE (LESS THAN \$1000)

Bronze sponsors will have logo displayed on one competition vehicle, or both if space allows, team's web page and promotional materials

IN-KIND (NON-MONETARY SUPPORT/DONATION)

In-kind sponsors will be given a gold, silver, or bronze status based on contribution. The team values non-monetary support such as technical expertise, facility rentals, material donations and equipment donations. Other sponsorship arrangements can be discussed. Details of sponsorships will be discussed on an individual basis.



2014-2015 SPONSORS









Professional Activities Fund Shell Engineering Fund Walter Gage Fund































UBC Supermileage



Thanks You!