



ABOUT US



The Electric Vehicle Club is a team-based, STEM-related, project-oriented, student-driven, extracurricular project that centres around the design and construction of 12V and 24V electrically powered cars. We focus on inspiring and educating future engineers to think green while also creating awareness around the environmental impacts of modern technologies. We strive to help demonstrate new and exciting green alternatives to fossil fuels while learning and having fun at the same time.

"LINGSPOP

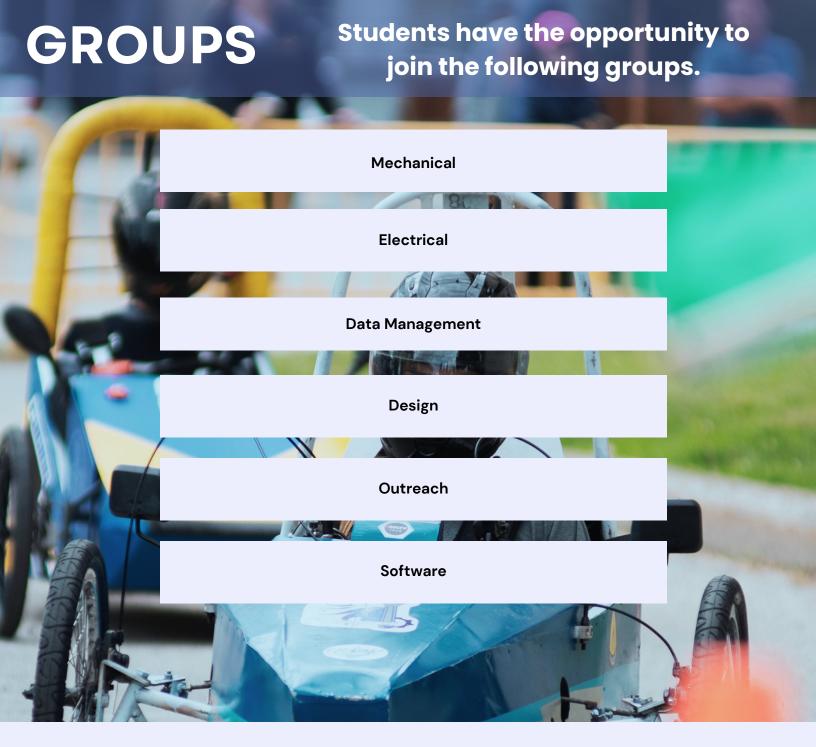
MISSION

Our mission is to provide an opportunity for young engineers to further their design, manufacturing, and engineering skills, as well as inspire more students to pursue a career in a STEM field. Students gain invaluable industry skills in manufacturing, welding, CAD design, CNC, and engineering design principles. The club allows students to continue their learning outside the classroom and benefit from hands-on experience that cannot be obtained through traditional classroom work and textbooks. Additionally, our work helps students develop teamwork, cooperation, and leadership skills.

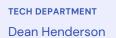
CHALLENGE

LHSS EVC participates in an annual endurance race hosted by the University of Waterloo. High schools and colleges from all over Ontario come to pit their designs against each other.

The race format is as follows; teams have one hour to complete as many laps as possible without stopping, on one set of batteries. The event consists of two races; a 12V and a 24V race. Teams typically build two cars, with one dedicated to either race. The goal is to produce an electric car that is fast as well as energy efficient.



Staff Members





TECH DEPARTMENT

Matthew Kraemer





Frame/Rolling Chassis ----- \$600
aluminum sheets
steel frame

Electrical & Instrumentation ----- \$400
general wiring/fuses
relay
communication equipment
LED read-out/speedometer

Brakes & Throttle ------ \$300 brake calipers/disk throttle

Safety & Ergo ------ \$300 belts emergency power cut-off switches seat

\$7000

Total

OUTLINE

LHSS Electric Vehicle Club has built several cars since its inception in 2009. Our team aims to build at least one new car each year, whilst simultaneously working to modify our pre-existing model. Having two projects running at once brings many benefits to our team. Not only does this allow more student bodies to get involved, but it also helps to raise our chance at success at any given competition. In our newest car, we're incorporating concepts such as momentum retention and weight reduction to achieve a more streamlined experience. As we have continuously done in the past, we hope to keep learning from our past experiences, continue to push the limits of engineering, and aim to build our best car yet.

