

# Baja SAE 2007, 2008 & 2009

## The project

The Sherbrooke University's Baja SAE is an all-terrain-vehicle created by a team of engineering students. The team has to design, manufacture, assemble and test the vehicle in view of competing in international events grouping teams from around the world. These events are organized by the Society of Automotive Engineers (SAE).

The vehicle must be designed and built in accordance to the SAE's list of rules and regulations, including the obligation to run on a 10 hp Briggs & Stratton single-cylinder engine.

## The team

The Sherbrooke University's team is composed of twenty or so full time engineering students. The entire team benefits from this hands-on, extra-curricular approach to design, manufacturing and management.

## Competition

For every single team, competitions are the moment of truth. The vehicle's performance is evaluated and compared to that of the other teams' ATVs. Several tests are organized in order to judge the sound design of the vehicle's different components:

Reports : Design report and cost report

Statics Events: , overall design, aesthetics, innovation, marketability

Dynamics Events : Suspension, top speed, acceleration, braking, sled pull, manoeuvrability, hill climb, rock crawl (individual Bajas)

Endurance Race: 4 hours long race on rugged terrain (all bajas)



## Baja SAE 2007, 2008 & 2009



2009 Team leader, technical director  
and suspension head designer

Results : 1<sup>st</sup> place in Alabama (among 70 universities)  
4<sup>th</sup> place in Wisconsin (among 120 universities)



## Baja SAE 2007, 2008 & 2009



2008 Chassis head designer & Driver  
2007 Floatation designer

Results : 10<sup>th</sup> place in Tennessee (among 70 universities)  
6<sup>th</sup> place in Quebec (among 120 universities)  
Results : 1<sup>st</sup> place in Florida (among 60 universities)  
2<sup>nd</sup> place in New York (among 140 universities)