

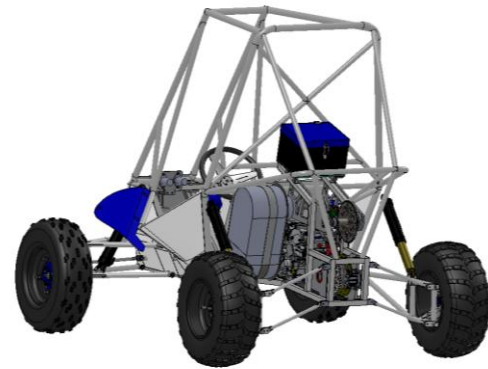
# WATERLOO BAJA SAE



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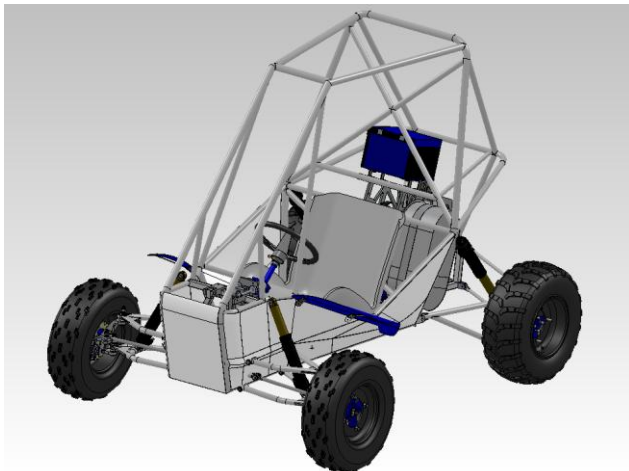
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## Design Progress

The final design of the 2012 Waterloo Baja vehicle is complete! After a lot of hard work and late nights, the 2012 vehicle has been fully designed and all subsystems have been assembled in SolidWorks.



Rather than the traditional double wishbone rear suspension, this year's team has decided to go with a 3-link trailing arm suspension. Having everything together in this model allows the team to address major fabrication issues such as component interference before construction begins.

In a few months time, this beautiful three-dimensional masterpiece will be a full-scale, driveable, off-road beast.

## Competition Date Change

Due to a scheduling conflict, the 2012 competition in Portland, Oregon has been moved ahead a couple weeks to May 2 -5, 2012. However, the target build completion date is still set for February 28<sup>th</sup>, 2012 and so far everything is right on track. This schedule change simply means that the team will have to depart a couple weeks earlier to make the trek across the country to the west coast.

## Fall Open House BBQ

The Fall Open House BBQ was a great success. Baja Burgers was out in full force, selling delicious sustenance to the masses. The team's burger flipping skills were put to the test as people lined up from the BBQ at Physics all the way to RCH. In fact, the demand was so great that the burger reservoir ran dry more than once! However, at the end of the day when the dust settled, few burgers remained and the Baja team had a bit more money to help them pay their way to Portland.

## KW Santa Claus Parade

A beautiful Saturday morning on November 19 held host to the 2011 Lions K-W Santa Claus Parade. The Santa hat-wearing Baja team took out the 2011 vehicle and covered it with Christmas cheer. Along with several other student teams and EngSoc volunteers, team members rode the UW float down King Street, through Uptown Waterloo, and finally arrived in Downtown Kitchener where the parade ended.

The wind was chilly but the sun was bright and the hot chocolate was warming. It was great to see so many smiling faces spreading Christmas cheer as UW Baja waved to the crowd from the float. The parade was also televised on Rogers TV for those that decided to forgo the cold temperatures and watch from the comfort of their homes.



## Materials Ordered

The CAD is done, the reports are handed in, and most of the materials have been ordered. In less than 3 months, the team hopes to have a completely test-ready vehicle so construction needs to begin ASAP!

At the beginning of January, the construction of the frame will begin. The bent and cut tubes that make up the vehicle's frame will be assembled first and foremost, prior to the integration of other subsystems.

Several other components, such as driveshafts and uprights, will be machined from bulk material. Much of this machining has been graciously donated by several sponsors and we would like to again extend our most sincere thanks.

From everyone on the Waterloo Baja SAE Team, we wish you a Merry Christmas and Happy Holidays! We'll be back in January for the beginning of what will most definitely be an exciting build term. Regular updates of the car's construction will be posted on our website and our Facebook page, so stay tuned!

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For more information check out our webpage!

Visit us at: <http://www.eng.uwaterloo.ca/~baja>

Or like us on Facebook at: <http://www.facebook.com/UWBajaSAE>