Road Warrior 9 is Ready to Race!

During last month we unveiled RW-9, aka Lily, at Wayne State during a public test day. We were excited to show off our hard work to our sponsors, families, and friends. The event was a great success and people outside of our team had a chance to see the car perform in person. Pictures and videos are great, but they don’t compare to the experience of hearing the engine roar and watching the car race through the course.

After the event we immediately began testing the car. The clock is counting down to competition, and each moment we test is another step closer towards a perfect car. Things will break, but its better to learn from these problems now rather than on the course at MIS. After a few days of testing we tore down Lily to paint and dress her during the week’s dead-time. On the next page you can see RW9 all prim, proper, and ready to shine!

RW9’s Unveiling Video!

With the reveal of our latest car it was only fitting to release a video of the finalized CAD. Our Frame Captain Brandon Horsch created this sharp promo featuring RW-9’s finished model! Special thanks to MOOG for the music! Follow the YouTube link below to check out the video!

https://youtu.be/wH0BXcs0YOc
Lily looks sharp with her gold frame, and the green components really pop in the whole assembly. Our new reclined seat definitely catches the eye, and based on driver feedback it is a huge comfort while operating the vehicle.

Now that the car is reassembled, we’ve resumed our constant testing. We’ve hit a few bumps in the road thus far, but overall the team’s designs are performing exceptionally well. Now we are working on the engine calibration and tuning our suspension for optimal performance. Only one week to go until competition!
Fiat Chrysler Test & Tune

Warrior Racing had an awesome opportunity to test Road Warrior 9 at the Fiat Chrysler Proving Grounds in Chelsea. The company generously hosted our team, along with several other local FSAE and Baja SAE programs, for some informative presentations and a wide open track for testing. This two day event provided our team with a feel for how competition works. There were tech inspectors ready to make sure our car was safe and a large testing lot with all of the dynamic courses. For our veteran members, this was just a warm up for our competition at MIS. However our new members now have a feel for the process and excitement of competition.

We can’t thank Fiat Chrysler enough for supporting our team and the SAE program by hosting this event. These two days were fun, educational, beneficial, and exciting!

Lights, Camera, Action!

Warrior Racing was featured on an episode of Comcast Newsmakers! Our President, Kristina Vujic, was tasked with explaining what our program is all about. Her six years of Warrior Racing participation shined as she explained the invaluable experience gained from being a part of the team. Be sure to check out the video on YouTube by clicking the URL below!

https://youtu.be/gQ0ZWKqUAFg
What’s Competition All About?

Its almost time for our competition at the Michigan International Speedway! We’ve taken a lot of time to prepare for this event, and we’re confident we’ll be breaking quite a few records on the track. If all goes well we’ll be attending Formula West in Nebraska during the month of June as well.

As a refresher from the last time we were preparing from competition, the goal of a Formula SAE team isn’t just to build a race car to test on the track. Its to design and manufacture a product that will be critiqued and analyzed by a board of engineers. Even before competition our team is required to submit documents that track our costs, designs, and much more. When we attend these competitions we will compete in the following events:

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<th>Static Events</th>
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<td>Design Presentation</td>
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Teams are assigned points based on various requirements and accomplishments for each event. The maximum score achievable is 1,000 points. After completing the static events the car is tested for safety and leaks. If a car fails the tests the team can attempt to solve the issues quickly on site, provided they have enough time and the problems aren’t severe. If all goes well its time for the most exciting moment of competition; driving the car through the various courses!

This is a rough description of the four day competition. For more details please visit students.sae.org/cds/formulaseries. Be sure to check our Facebook page for competition updates and next month’s newsletter for our results!
Our team would like to thank Michigan Fiber Glass for helping our team fabricate our bodywork! It takes a lot of effort and time to lay out the carbon for our seat, nosecone, and side panels, so needless to say we can’t do it without their support!

Our shirts for the new season are in! We’re thankful to represent all of those awesome sponsors on the back! Special thanks to EmbroidMe for helping us out with this order!
Liberty's Gears has continued their support by helping us fabricate our half shafts! Now that we have the last component of the Drivetrain, we're happy to say it's all assembled and ready to go!

How did we manufacture Road Warrior 9 so precisely? We did it with measuring tools Fowler has provided us! Thanks to another generous donation we have more equipment to use in all of our projects! Thanks for the support Fowler, we’re happy to represent you as a Belle Isle sponsor!
Thanks to the support of Samco Sport we now have plenty of tubing and components to assemble our cooling system! We’re thankful to have them as one of our sponsors!

Synergeering was generous enough to 3D print our intake (which can be seen on previous pages) but they were also kind enough to print us some very unique business cards! They’re awesome and we’re looking forward to using them at some of our upcoming events!
Our car wouldn’t get very far without the support of WSU’s Biomedical Engineering Department! Special thanks to them for letting us utilize the truck for transporting our Road Warriors!

Thanks to our new sponsor Richcoat LLC for hard anodizing our wheel nuts for Road Warrior 9! They look great on Lily!
Warrior Racing would like to thank Summit Aerospace Supply Inc for providing our electrical members with additional wire for the harnesses! There’s plenty of options and variations in the harness, so it’s great to have this additional stock!

Thanks to our new sponsor Lemo for providing our team with a bunch of connectors and some electrical tooling! We’re looking forward to putting them to use!
Warrior Racing would like to thank Spal Automotive for providing our team with fans for our cooling system! The last thing we want is an overheated engine, and this donation will definitely help us prevent that!

We would like to thank our long time sponsor NGK for providing us with additional spark plugs and sensors! RW9's Powertrain is coming together, and these will plan a crucial role in its performance!
Our team’s success is made possible through the generous donations and support from the following companies. Without them our team would not have the resources needed to provide invaluable hands on experience and to manufacture our formula cars. From all members of our team, thank you Warrior Racing sponsors!
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