RW-8 Nearing Completion

RW-8 is nearing completion. Our differential system and suspension are being mounted. The impact attenuator has been fabricated. We are currently working on a few ergonomic features. Once everything is set we’ll install the wiring harness and fire up RW-8! After making sure everything is functioning properly we’ll take all the components off and paint the frame. Finally we’ll put everything back together, lay down our carbon fiber nosecone, suit up, and take RW-8 out for some test runs before our first competition in Barrie, Ontario.

RW-8 Differential System

RW-8’s drive-train wouldn’t be complete without its differential system. Adam Niner and Richard LePage have lead the design, and the bulk of the manufacturing has been completed by Mahesh Umasankar. This year our team decided to utilize a MK2 differential from Taylor Racing. It is approximately half of the size and weight compared to previous products. The primary function of the differential is getting the power from the engine to the wheels. In addition it allows the wheels to spin at different speeds during operation. One of the biggest challenges Warrior Racing faced this year was the location and mounting scheme for the differential. In order to make sure everything would be packaged properly we measured twice and cut once. Two aluminum mounts are used to hold the bearings of the differential in place. These mounts attach to a bracket that extends from the engine. To ensure the differential will be secure and safe, threaded rods connect the mounts to a bracket on the bottom of the engine. With the exception of the differential itself, all of the components of the system were made in house.
Meet a Warrior Racing Teammate

Mahesh Umasankar
Currently pursuing a BS in Mechanical Engineering, Junior Status

A Little About Myself
The satisfaction that I get from supporting theories with numbers is what motivates me to become an engineer. In my spare time I love to watch and play sports and I enjoy spending time with family.

Why I joined Warrior Racing
I believe achievement in the classroom can only give you so much and its important to have the opportunity to solve real world engineering problems. This foundation that you gain as a result of dedication to the team was my motivation behind joining Warrior Racing.

Favorite Part of Warrior Racing
In order to build a car, machining is required. First, you design the part, and then you machine the same part exactly to the specifications in the design. This process of taking a the CAD and making it is pretty awesome.

Recent Team Activity
I’ve been designing and manufacturing suspension parts on the mill and the lathe. I’m now manufacturing the differential mounts and preparing various components for assembly.

Warrior Racing Café Updated Menu

During the spring / summer semester drop by our office to pick up goods to keep yourself cool. Besides our standard of chilled water, PowerAde, Juice, pop, Starbucks, etc. the Warrior Racing Café is now serving ice cream sandwiches (vanilla, mint chocolate, cookies and cream $0.50 each) and Flavor Ice Pops (variety of flavors $0.25 each)

CAN OF POP, JUICE BOX, OR A BOTTLE OF WATER
Cake, Diet Coke, Cherry Coke, Mountain Dew, Sprite, etc. // Apple, Fruit Punch, Gatorade

0.50

SPECIALTY DRINKS
Arizona Lemon-flavored Iced Tea or PowerAde

1.00

STARBUCKS FRAPPUCCINOS
Vanilla and Mocha flavored frappuccinos.

1.50

POPTARTS & HOT POCKETS
Strawberry, Chocolate Fudge, Red Velvet, etc. // Cheese, Pepperoni, Bacon Cheddar

1.00

NOODLES
Mac n’ Cheese Bowl or a Package of Ramen

1.00

CLASSIC SNACKS
Ice Cream Sandwiches, Better Made Original Chips, Mini Pretzels, Nabisco Snacks

0.50

SALTY OR SWEET
Planters’ Salted Peanuts or a Flav-o-licious Popsicle

0.25

TWO PIECES OF CANDY
Reeses, Kit-Kats, Smarties, DumDum suckers, Wather Originals, etc.

0.25

PACK OF GUM
Orbit 14 piece (flavors vary)

1.00
Recent Sponsor Contributions

MARTEN MODELS & MOLDS

Our new Detroit Legacy sponsor Marten Models and Molds machined our body work molds. They’re a local company based in Fraiser that fabricate car molds for the Big Three. To learn more about Marten Models and Molds, visit their website at martenmodels.com
Recent Sponsor Contributions

Engine Lab has been a part of the Warrior Racing family for over four years. With their recent contribution of two engine management systems we are happy to elevate them to our Detroit Legacy Sponsorship Level. To learn more about Engine Lab, visit their website at enginelab.net/index.php
Recent Sponsor Contributions

Our new sponsor RCS sealed and prepped our molds for manufacturing. To learn more about RCS, visit their website at www.rcsyachtrefinishers.com/

Our new sponsor Metalmite provided anodized wheel nuts. To learn more about Metalmite, visit their website at www.metalmite.com

Our current sponsor Thinbit provided us with specialty tooling for our suspension and drive train components. To learn more about Thinbit, visit their website www.thinbit.com/

Our sponsor SolidWorks provided us with CAD software. To learn more about SolidWorks, visit their website at www.solidworks.com/
Without the generous contributions and support from our sponsors and supporters our team would not be the success it is today. We can’t thank them enough for joining the Warrior Racing family by supporting us with funding, machining, and materials.

Control Click the YouTube icon to view our 2013 sponsor thank you video!