Michigan Tech
BLIZZARD BAJA RACING

FALL NEWSLETTER 2027



FALL NEWS HAUL

Welcome Back!

Blizzard Baja has been working throughout the summer and Fall semester to prepare for all this Fall has in store for our team. In this update, we'll go over our recent competitions and highlight a handful of the senior designs.

We hope you enjoy hearing from us, and we look forward to seeing you at Winter Baja. Thank you for the continued support.

BLIZZARD BAJA RACING

TABLE OF CONTENTS

Ohio National Comp
Ohio Cont.
Manual Transsion
Backwoods Baja
CV Axles
Big Sands Bash
Sponsors

BAJA SAE OHIO

This September, 23 of our members traveled over 700 miles to Briarcliff Motocross to compete against 88 other teams from around the country for a week-long series of events and rigorous inspections.

Including Suspension & Traction(pictured right), Design Review presentations, Passport Pull, Maneuverability, & the infamous 4-hour Endurance Race.





NATIONAL COMP CONT.

We placed 26th in the Endurance event, 13th in Sus & Traction, 16th in the Passport Pull, and 25th in the DRB with our newest car, Gremlin.

We learned a lot from our performance and mistakes in Ohio and are looking forward to outranking ourselves at our next SAE competitions.

For the first time, our team will be attending 2 national comps in 1 calendar year. Williamsport in May and Michigan in October.

MANUAL TRANSMISSON

The Manual Transmission Senior Design team has been busy this fall semester. From buying a four-wheeler engine and taking the gears of the transmission to manufacturing the gear blanks and components by the end of week 2 of this Fall Semester. Making them the first Senior Design team to do so.

The team was able to fully install and test the manual transmission in Hornet. All three members of the senior design team were able to drive Hornet at Backwoods Baja, where they placed 6th out of 34 cars, with the 12th-fastest lap of 3:28, out of 556 lap times recorded.





BACKWOODS BAJA

Blizzard Baja returned to Menomonie, WI, for UW-Stout's annual Backwoods Baja. This year was both challenging and rewarding for us. As the team camped in below-freezing weather the night leading up to the race, Gremlin still earned its way onto the podium.

In previous years, our team has used Backwoods as a driving opportunity for newer team members. We decided that from now on, we would prioritize challenging the competition.

Our team took first in their special event: tire bowling. allowing for a premier grid spot to open the endurance race. Gremilin took 3rd, and Hornet took 6th.

LIGHTWEIGHT CV AXLES

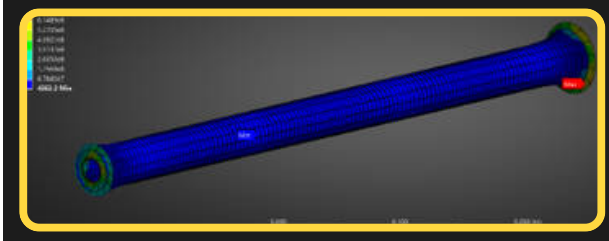
Our Lightweight CV Axle Senior Design Team is developing carbon fiber axle shafts for Nemesis, our current project car. The goal is to reduce axle shaft weight by 40% compared to our current setup while maintaining the strength needed for racing.

The Senior Design Team has refined the axles through CAD, finite element analysis (FEA), and hand calculations. A big thanks to Amalga for their insight into designing and supplying the carbon fiber tubing.

With the initial design and simulations complete, the team's next steps are manufacturing, assembly, and testing. The team plans to test on Gremlin before implementing the final result in Nemesis.



AMALGA
COMPOSITES





BIG SANDS BASH

This Fall, our team decided to change some of our testing procedures. We created a mini Baja race to simulate the procedures and stresses of a real competition. With the goal of preparing younger team members for Winter Baja and Baja SAE Williamsport coming up in Spring. We hosted this at a familiar testing ground: the beaches of Gay, MI, 35 minutes outside of Houghton.

We divided our team into three subsections; each was assigned either Gremlin, Hornet, or Matador to prep and race with 5 days' notice.

Teams participated in an acceleration competition, a hill climb, and a 2-hour endurance race. Team Hornet took 1st, followed by Gremlin, then Matador.

Michigan Tech
BLIZZARD BAJA RACING

SPONSORED BY

CTECH MANUFACTURING

nexteer AUTOMOTIVE

KISSsoft Gear Design Software

NUCOR®

OSHKOSH™

TEAMTECH

SCHAEFFLER

MM POWER SPORTS

KICK ASH BASKET

FOX®

RIDENORTH

MIDWEST TUNGSTEN SERVICE

ROWLEY WHOLESALE

Milwaukee®

USS

McLAREN Engineering

BG®

AMALGA COMPOSITES, INC

LEVEL UP

Michigan Scientific Corporation

HOUGHTON MI

HOUGHTON BUILDING SUPPLY

SendCutSend