A New Season, A New Team

Welcome new and returning WSU Warriors! The start of a new school year means the start of a new SAE season! Warrior Racing has already begun designing our new car for our competition at the Michigan International Speedway in May. We’ve got a great team running the program but we’re always looking for individuals with a passion for cars, motorcycles, engineering, business, photography, etc. Interested in joining a program where you’ll build a formula car, make connections in the industry, gain hands on experience, enhance your resume, and have a great time? Stop by our office on the first floor of the College of Engineering, suite 1530, to get started. In the meantime, turn to the next few pages to learn about the devoted Warrior Racers you’ll be hearing a lot about this season! Lets go Warriors!
Kristina Vujic
President

Kristina Vujic has been a part of Warrior Racing for the last five years. In the last two she led the team to competition as president of the organization. Currently she is pursuing her PhD in Economics, while working as a Free Trade Analyst and teaching several WSU courses. Even with this demanding schedule she continues to provide leadership and manage the team’s finances. Since her beginning at Warrior Racing Krissy took on the responsibilities of the cost event. Working with the team’s engineers she has created flawless reports and presentations, continuously improving the team’s score in the event. This past season was proof of how far she’s advanced the team’s success. At Formula North in Barrie, ON, Krissy’s efforts claimed 2nd place out of 20 present teams. When Warrior Racing competed at Lincoln Kristina led the team to a record breaking 4th place finish in the cost event out of 80 teams. To add onto the success, the judges could not find a single issue or flaw with her report. Only the car’s overall price could have placed us higher. She has her sights set for MIS this May, planning to shatter the record one last time before she retires from the program.

In her spare time, which she can never seem to have enough of, Krissy has become a jack-of-all-trades in the shop. Members know they can turn to her for advice and support when working on projects. She has taken a particular interest in the electrical side of our program, working with our Powertrain Director to create wiring harnesses. Krissy also assisted with the construction and maintenance of our in-house dynamometer. Her final season with Warrior Racing will raise the bar for future teams.
Mohammed Kakli has been participating with Warrior Racing for the last four years. He has had a passion for motorcycles from a young age, and carries that devotion and experience into the program. Since his first day Mo has been taking on engineering responsibilities until he became the lead engineer for the team. Coming across challenges outside his element don’t phase him. If there’s a problem, he’ll find a solution. There’s isn’t a single subsystem on the team’s cars that Mo hasn’t contributed to.

In the last season Mo has begun focusing on the powertrain systems, passing along the responsibilities of chassis to his supporting team. This has allowed him to design, construct, and maintain a versatile in-house dynamometer for years to come. He has been able to test Warrior Racing’s engines and tune them for optimal performance. However without an electrical system, these tests would not be possible. Constructing harnesses from scratch was something Mo learned on his own. Now he has a skill set that allows him to effectively connect the ECU to all components of the car for data collection and controls.

Mo is also Warrior Racing’s top driver. He takes his passion for racing seriously, and handled RW-8 like an expert the first time it ran. “I wanna go fast” is sure to be heard every time Mo gets behind the wheel of one of the team’s Road Warriors. He understands how each subsystem is performing based on how the car handles and rides. When something breaks down he knows how to fix it. Mo makes sure the repair is done right, even if it takes more time then desired. As Mo begins his final season with Warrior Racing, you can be sure his success will demand attention.
Richard Le Page
Chassis Director

Richard Le Page has been competing at SAE events as a member of Warrior Racing for the last four years. When he first joined the team, he did not have the automotive experience that most of the team had. That didn’t stop Richard from tackling projects, tearing down obstacles, and learning as much as he could. Although he was heavily involved with engineering he helped lead the business side of Warrior Racing. Over the last season he was able to pass on his business responsibilities to focus of the frame, bodywork, ergonomics, and suspension. Now he leads the team as Chassis Director. His unique experience with engineering and business makes him the ideal individual to lead Warrior Racing at the design event.

Working closely with our sponsors, Richard fabricates impressive and sleek carbon fiber body work. It is well known that Richard always has the next great idea brewing in his mind, especially when it comes to carbon fiber. His enthusiasm radiates throughout the team inspiring new designs in all of our members.

He’s become very skilled in CAD over the years, working with our Frame Captain to assist new members with projects. Even though he appreciates the importance of the initial design and draft, Richard is hungry to get into the shop and make these projects a reality. If problems or complications arise he plows through them to progress the completion of the car. As Richard moves into his final season with Warrior Racing he’s building a legacy with the team that will provide future generations with all the tools and information they will need to succeed.
Adam Niner has been with Warrior Racing the longest, joining early fall of 2009. However due to multiple internships, shifted classes schedules, and several jobs he has had time away from the team. Niner, a mechanical engineer, started with photography, media, and public relations. He created several promotional videos, newsletters, and plenty of sponsorship material. Delving into the engineering side of things, he worked on the drivetrain system for RW-6. In addition he assisted with the cost report for several systems. Afterwards he began his full time co-op rotations and classes, and decided to focused on small scale promotional projects. This past season Niner returned full force to promote the team with media and fundraising events. Over the course of the season he also took on the responsibilities of RW-8’s drivetrain system. Throughout the year he worked with the team to develop a new dynamic that would properly share the loads so no individual would feel overwhelmed by deadlines. Having several corporate co-op rotations under his belt, he was no stranger to an efficient hierarchy. At the end of this process Niner became the Business Director, handling team management and communications. When it comes to safety and success Niner knows the devotion it takes, both mentally and physically, to get the job done. He makes sure everyone is properly equipped and efficiently meeting manufacturing and assembly deadlines. Niner graduates this December but will finish this season, aiming to provide the team with the organization and resources they will need to keep WSU FSAE running strong.
Justin Bekker - Induction Captain

Justin joined Warrior Racing last fall and expressed his interests in powertrain systems. His main project was the completion of the exhaust system. With the assistance of the Powertrain Director he was able to design, manufacture, and assemble an exhaust system that passed the noise inspection on the first attempt. Now he has taken on the full responsibilities of the fuel and intake systems for the new season.

Asaa Harajli - Cooling Captain

Asaa has been competing with Warrior Racing for the last year. On his way to becoming the cooling captain, Asaa became a jack-of-all-trades in the shop. With some practice Asaa is now one of Warrior Racing’s top welders and can tackle any steel project. He takes on any assignment with enthusiasm and a smile, infecting the team with positive encouragement and energy.

Michael Warmbold - Drivetrain Captain

Mike is Warrior Racing’s youngest full time member. Starting with the team last fall, Mike worked on a variety of projects. He provided substantial assistance on the brakes subsystem, but his biggest accomplishment was the design and manufacturing of the team’s indestructible track cart. Now he has taken over the roles of the drivetrain system, learning something new and adding to his experience.
Brandon Horsch - Frame Captain

Brandon has been competing with Warrior Racing for the last two years. He’s no stranger to engineering competitions as he’s been active on robotics teams for years. When it comes to computer-aided drafting, Brandon has no equal. Designing the frame and ergonomic features of the car are his passion, but he’s not afraid to indulge in the electrical and control systems.

Mahesh (Hesh) Umasankar - Suspension Captain

Mahesh joined the team last season. He found his home in the challenging suspension system and over the last year he learned what it takes to turn the system’s concepts into reality. As Warrior Racing moves into its next season Hesh will be using his experience to design the next big thing. He’ll also be utilizing his expertise on the team’s mill to help all subsystems manufacture their components.

Tirath (Ty) Matharu - Brakes Captain

Tirath became a part of Warrior Racing last fall. Over the first semester he learned what he could about other subsystems and took on the responsibilities of the brakes early winter. You can be sure that Ty always has a new idea, not just for brakes but for any aspect of the team. He works on projects for public relations and promotions in his spare time, and designed Warrior Racing’s new website.
**Wayne State’s Festifall**

It was great to see all the new faces at this year’s student kick-off events. From the grad-student orientation to the student organizations’ Festifall, we hope everyone is having a great start to the new semester. Let’s go Warriors!!!

**Warrior Racing’s Revamped Website**

*by Tirath Matharu*

Our team has been working hard to prepare every aspect of our program for the upcoming season. We always want to share our success, progress, and news with our sponsors and supporters through our website. Our past site was simply not living up to its potential. The team aimed to fix that by developing a website with a fresh look. I led the project with the helpful support and feedback of the team. We ensured that it is organized, user friendly, and featured a modern, sleek appearance. Our new website includes: team updates, a full roster with bios, current sponsors, information about the team, media, and much much more. The site will be regularly updated to show the team’s progress, upcoming events, and fundraisers. Without further ado, we’d like to welcome everyone to our new website!

[Link to website: FSAE.ENG.WAYNE.EDU]
**SAE Detroit**
We hope everyone had a blast at the Woodward Dream Cruise! Warrior Racing had a great time hanging out with Lawrence Tech’s Formula SAE team at the kick off event in Ferndale. We were able to see plenty of rare, unique, and powerful cars. It was great meeting and talking with individuals who shared the same passions and desires that drive Warrior Racing.

Speaking of SAE, be sure to check Warrior Racing out in the latest edition of *Supercharger*. ([https://www.sae-detroit.org/supercharger/](https://www.sae-detroit.org/supercharger/))

A special thanks to Lynn Rucker for helping us get involved with these two great opportunities!

**ALS Ice Bucket Challenge**
Many of our team members were nominated by friends and family to do the ALS challenge. We all decided it’d be a great idea to complete it as a team, donating to a great cause and promoting awareness of ALS. Check out the chilling video on our facebook page!

[facebook.com/WSUWarriorRacing](https://www.facebook.com/WSUWarriorRacing)

**Kart 2 Kart**
Warrior Racing planned a small get together & fundraising event for our team and its alumni. The competition was fierce, but Kevin Royce, Michael Warmbold, and Peter Laskiewicz managed to finished on top. Special thanks to the staff at Kart 2 Kart for making the event a success! Keep an eye and an ear open for future Kart 2 Kart events Warrior Racing will be planning!
CAM Logic sponsored our team with a 3D scan of our engine. We can’t thank them enough for the precise CAD of this critical component. It will help us avoid dimension errors and the time required to repair those mistakes. Be sure to check out next month’s newsletter to view CAM Logic’s generous donation in RW-8’s completed CAD!

camlogic.com
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!
Contact Information & Media Sites

5050 Anthony Wayne Drive
Suite 1530
Detroit, MI 48202
Office Phone - 313.577.3829
Website - lsae.eng.wayne.edu
Facebook - facebook.com/WSUWarriorRacing
YouTube - youtube.com/wsuwarriorracing
President Kristina Vujic
kvujic@wayne.edu
Business Director Adam Niner
adam.niner@wayne.edu