

# **CRIMSON** **RACING**

FORMULA **SAE**



*April 2025 Newsletter*



CR25 is making strides, and initial impressions are positive! Our first drive days were conducted leading up to and throughout Spring Break. Our drivers report the new platform has greatly improved handling over CR22, and already their lap times are beginning to reflect this improvement. This month we look forward to continuing to refine CR25 and displaying these improvements at upcoming events!

## Electrical and Aero Finishing Touches

Preparing CR25 for its first drive has been a long journey, but the electrical components were one of the final and most critical details that needed completion before CR25 would be ready for dynamic testing. To get the car running, CR22's wiring harness first needed to be removed and inspected for damage. Once it was cleaned and inspected, the harness was modified for the new car and installed in CR25.

The aero components for CR25 are nearly complete. One of the final tasks, fitting bodywork, required carefully aligning and trimming the manufactured part to ensure clean fitment to the frame and clearance of other components. Once the bodywork was measured and aligned, hardware was fitted, and it has finally been installed on the car. With the nose and bodywork mounted, the silhouette of CR25 has nearly taken shape.



# Mock Endurance

Having completed testing for every dynamic event, CR25 has been showing improvement over CR22. The new car has already shown to be faster throughout every event, and further improvement is still possible as our drivers continue to push the limits of the new car's handling. Most importantly, CR25 successfully completed a mock endurance on its first attempt. This entailed driving 22 kilometers with a driver change. No serious issues were encountered, and we learned a lot more about the car throughout its endurance run. We are still refining CR25 to push what our drivers are capable of in this new platform, but with every new testing session this car continues to excite!



## Member Spotlight: Reggie Stults

Reggie is a sophomore from Oswego, IL majoring in Mechanical Engineering. We caught up with Reggie below!

### *How did you get involved with Crimson Racing?*

I first heard about Crimson Racing during Get on Board Day, after which I began attending new member and chassis meetings. I started by just attending meetings and being in the shop when I could, but I was gradually given more responsibilities and some smaller projects to work on.

### *Which subteams do you work with?*

I'm a member of chassis and am the current senior engineer for the cockpit and controls subsystem.





### *What's your favorite project you've worked on?*

My largest project thus far has been creating the housing and sling for the new Bosch DDU11. This required a new design, prepping and milling a foam mold for the housing, 3D printing a mold for the sling, two different carbon fiber layups, and some final post processing before it could be installed on the car. I've enjoyed working with different subteams to help complete and integrate this component. I've learned so much throughout this process and am incredibly grateful to have been given this opportunity.

## Member Spotlight: Jon Olaivar

Jon graduated in the fall of 2024, but that hasn't stopped him from helping the team. With his Mechanical Engineering degree, Jon is interested in propulsion and mechatronics in the aerospace industry!

### *How did you get involved with Crimson Racing?*

I learned about Crimson Racing during A-Day as a high school senior. Before then, I had never heard of FSAE or any student design team on campus for that matter. During the campus tour, we came by the Crimson Racing shop, and though nobody was there to explain who they were or what they did, poking around in the shop for only a few minutes— seeing CR18 and a disassembled Yamaha R6 powertrain on the table told me all I needed to know: I had to join. The rest is history, and the moment I moved into a dorm as a freshman, Crimson Racing became a hugely impactful part of my life.

### *Which subteams do you work with?*

As a new member, a long 5 years ago, I began design roles on Shifting and Lubrication, before ultimately transitioning primarily to Powertrain Calibration. In recent times, I help wherever I'm needed most— whether that's Powertrain, Electrical, or EV Power Systems.

### *What's your favorite project you've worked on?*

My biggest long-term projects as a member of the team has been the recently completed Engine Dyno, and Ion Current Combustion Analysis. The Dyno has definitely been a powerful learning experience, not only for me, but for the incredible people who've pitched in and made the end result possible. While it's certainly a tool for Powertrain primarily, the work to bring it to life encompasses a substantial amount of electrical work as well. Ion Current Combustion Analysis has been another great project, and I really look forward to seeing what the team can do with it in the future.

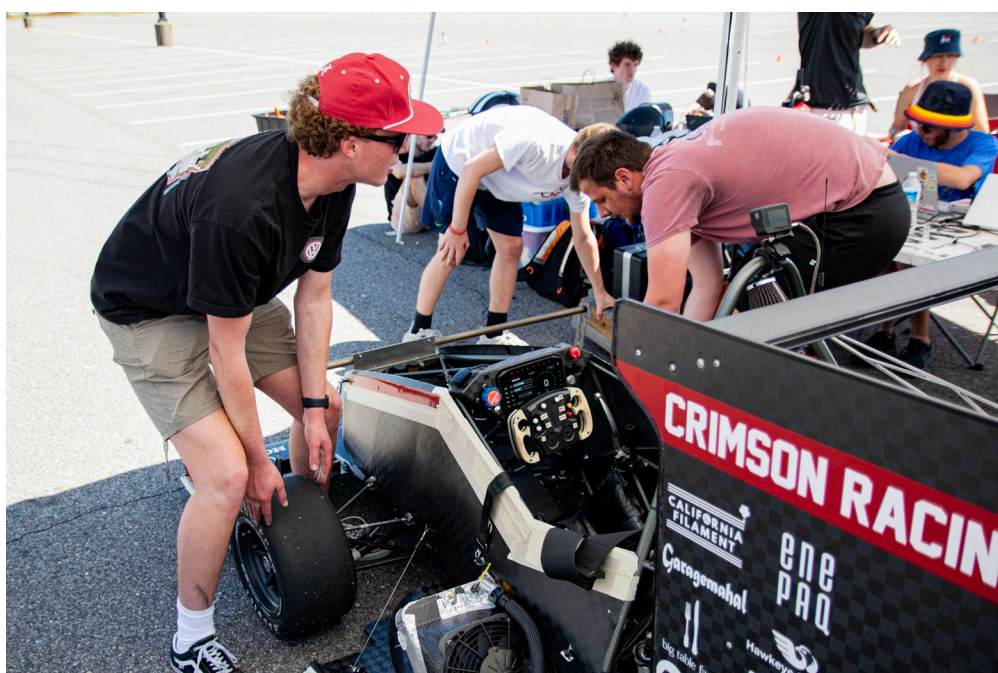
As a (soon to be) alumni of Crimson Racing, I'll be forever thankful for everything and everyone that was a part of it. Through the good times, and the hard times, it's been an experience like no other.



# Upcoming Events

There are some big events coming up this month! On April 12th the team will be headed to Kennesaw State University to compete in the Formula South Invitational. This annual competition sees participation from schools across the South, giving us all a chance to interact with and learn from other teams, and preview how our cars will perform in Michigan. This will be CR25's first competitive outing and we expect an impressive performance.

Soon after, on April 15th, UA will be hosting Automotive Days. This event will be open to the public and focused on showcasing the many clubs and partners of the university that are involved with the automotive industry. This will also be the first public unveiling of a complete CR25, so we encourage anyone interested to come out and take a look!



# Crowdfunding

We would also like to thank all the donors who contributed to our 2025 crowdfunding campaign. In the end we were able to raise **\$13,600** to go toward team essentials like PPE, fluids, hardware, and driver gear. We appreciate everyone who contributed to keeping Crimson Racing operating, continuing the legacy of learning that drives us forward. Our community of donors and sponsors are who allows us to do what we do, so again, thank you!

# Apparel

Crimson Racing apparel is up for sale, courtesy of University Tees! These designs will be available until April 14th with proceeds going back to our team. You can order from the link [here](#), so go get some sweet new apparel and show your support for Crimson Racing!

# Closing

Watching almost a year's worth of effort come to life is an exciting time for all of us on this team, and we are on track to achieve an impressive competitive performance this year! As Crimson Racing continues to grow as an organization, we are thankful for the alumni who have helped build our team culture and skill set, and our sponsors and donors for their continued support. As we continue testing, improving, and competing with CR25 for the rest of the season, we hope many of you will get the chance to be a part of it.



Until next time,

Roll Tide!

