Greetings from Crimson Racing!
The fall semester is now underway here at the University of Alabama and although students are just now getting back in the grind, our team has been working hard all summer in order to be ahead of the curve. We are now wrapping up the design phase and gearing up to begin manufacturing.

Team Updates

Powertrain
The team has been putting in hours and hours of work and have finished the exhaust design. We also have a working concept for the differential as well as the cooling system. Along with all the advances in design, we have sent off stub axles to be machined.

Chassis
The frame design is finalized. With this done, we can submit our Structural Equivalency Spreadsheet to be approved so we may begin construction of the frame. This tends to be one of the more lengthy steps to building the car as it requires great precision, but with the design done, the team will have plenty of time to properly cut and weld the frame. A new feature Crimson Racing is looking to add in the coming seasons are wings. CR17 should be fitted with wings designed by the team and tested for proof of concept this fall. We look forward to sharing the results soon.

Software
The team has recently added ANSYS to toolbelt. ANSYS is a analysis software that allows our team to better understand how our designs are improving by running Finite Element Analysis and Computational Fluid Dynamics simulations in order to predict how the designs will hold up in the real world environment. We are currently working on setting up MSC and are applying to Star-CCM which would allow us to further our look into the possibility of wings.

Sponsor Days
The team conducted a team day at Metalsa and it went great. We were able to show all of our progress and this served as a great opportunity for our team members to get some exposure and speak to engineers with experience and get some feedback.

Outreach

Visitation
If anyone wants to come see the car, please don’t hesitate to send us an email and schedule a time to come by the shop!

Alumni Network
We are excited to announce an alumni network, where any alumni of our program can get a closer experience to Crimson Racing. Please contact us if you have contact information on any alumni, or have them contact us via email or social media.

Left: Intake restrictor in CFD simulation
Right: Team member Jessica Prestel with Metalsa Employees during local event
Platinum

Altair

The University of Alabama Engineering

Gold

SOLIDWORKS

CD-adapco

Honda

McAbee Construction

Silver

ExxonMobil

Faurecia

Leigh Automotive

IBM

Chevron

GESO

Plthora

Andrews

MathWorks

Ricardo

ULA

GAIN STEEL

Mugshots Grill & Bar

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