



Greetings from Crimson Racing,

As we head into the end of the semester and winter break, we are feeling very confident in our work thus far. The last month has been an especially productive one for the team, consisting of work on the engine stand, uprights, pedals, and frame. We are on track to have the car fully assembled and ready to drive by March 1st.



For the engine, we have recently finished the dynamometer stand. Our water-brake dynamometer uses water to resist the engine, allowing us to measure the torque. Knowing the torque output of the engine allows for more precise tuning which will contribute to our success at the competition in May. Before the end of the semester, we plan on completing and installing the

intake/exhaust manifolds and completing the remaining tasks needed to allow us to tune and finalize our engine.

The frame remains in the production phase. Currently, we are working on the engine mounts. With the completion of the engine mounts this week, we should be able to finish welding the frame and move on to its painting.

Our uprights are now fully machined and ready for assembly. The Crimson Racing Team would like to express our deep appreciation for Fitz-Thors Engineering and the Mechanical Engineering Machine Shop for machining our parts and completing them on schedule.



We have completed the body design and are starting to make the molds. Currently, we have cut the two inch foam slices and have started to shape the mold. The protective layer of body filler will be applied soon

so that the resin does not melt through the foam and so we can keep the mold for multiple bodies.

The freshmen continue to appear as a great asset to our team. Their most recent task included designing the pedals, which we will manufacture within the next couple of weeks. We look forward to their continued efforts next semester as we begin to approach the competition.

Once again, thank you for your support of the Crimson Racing Team. As always, feel free to contact us with any questions, comments, or advice; we would love to hear from you. Happy Holidays!

Sincerely,  
Crimson Racing  
[alabamafsae@gmail.com](mailto:alabamafsae@gmail.com)  
<http://fsae.eng.ua.edu/>