Greetings from Crimson Racing!

We are thrilled to be back for the 2018-2019 school year! After a busy summer making additional progress on our car and competing with the CR18 at FSAE Michigan and FSAE Lincoln, our team members have returned to Tuscaloosa to kick-start what is sure to be another successful year.

This edition of our newsletter will serve as a quick update on what our team has been up to since the semester's beginnings in late August, as well as a brief summary of what we accomplished over the summer. Look for a full newsletter released at the end of this month that will detail our team’s progress throughout the month of September. As always, we'd like to thank our sponsors for their continuous and generous support.

Back and Better than Ever...

The 2018-2019 school year has arrived, and it's safe to say that the highlight of Crimson Racing's summer was competing at both FSAE Michigan in May, and FSAE Lincoln in June. Overall, our team officially placed 48th at FSAE Michigan and 17th at FSAE Lincoln. However, once both competitions concluded, Crimson Racing wasn't finished for the summer. Progress continued to be made in all areas, including aerodynamics and outreach.

One of the largest advancements made since competition involved a new aerodynamic package added to the CR18. Our team first created a prototype physical model, which was helpful in learning more about manufacturing and integration. Additionally, we were able to do a full suite of testing, beginning with steady-state testing, manipulating the aerodynamic balance of the car, and seeing how different tweaks would affect steady-state performance. Transient track testing allowed us to tune the suspension and wings in order to improve the CR18's performance. And finally, full coast-down and straightline testing were carried out on a runway. Here we saw how our simulations compare to actual performances as well as how we can improve accuracy. The new aerodynamic package debuted during an outreach event at Hoover High School on August 3, where team members showcased their hard work over the summer and discussed the engineering principles involved with the design and manufacture of the CR18. This event was a success, and a photo below exhibits the aerodynamic package implemented onto our car.

With the fall semester now in full swing, we are looking back at a successful, eventful summer and charting a course for the year ahead. The University's Get on Board Day on September 4 attracted lots of new members who we are thrilled to have expressed interest in our team. Here's to another great year with Crimson Racing!

Left: The CR18 showcases its new aerodynamic package at an outreach event at Hoover High School. It was developed over the summer by team members.