

Gator Motorsports is rolling into the new year with a rolling chassis. The team spent August through December staying driven to build a top car for competition while balancing time spent with team events, visitors and fundraising.

Formula Update



The semester began with an emphasis on finalizing designs and recruiting new members. Team members participated in class presentations, weekly design meetings and New Student Shop Day.

In October, Gator Motorsports was visited by Edward Kasprak, past FSAE design judge and cofounder of the FSAE Tire Test Consortium, for second industrial lecturer visit. The University of North Florida, University of South Florida, and University of Central Florida SAE chapters joined to hear his lecture on how tire performance relates to vehicle dynamics.

Gator Motorsports set design and manufacturing goals for October 3, the day before FSAE registration. The goals ranged from a completed CAD model to 25% completed chassis manufacturing; this helped motivate the team to begin manufacturing amidst beginning of semester events.

Car 61's 58 pound chassis is complete and



ready for the other parts to come off the mills, lathes and CNCs. Third year suspension designer, Luther Lloyd, designed and machined billet aluminum uprights "The upright/hub combinations are evolutions of my previous designs. They have been redesigned to reduce the compliance at the wheel by increasing spindle stiffness and improving bearing preload," said Luther. The team is excited to be working with a new sponsor, Advanced Ceramic Manufacturing, to lay up a redesigned composite restrictor and intake manifold using rapid prototype soluble mold techniques. With this and other new components Gator Motorsports hopes to take last year's design event experience and build a fast and reliable car that is easy to service.

Other components such as controls arms, chassis closeouts, pedals, and driver controls are also complete, while the rest are being manufactured to meet the team's January drive goal. Early construction allows UFSAE to take advantage of our wonderful year-round testing weather.



Community Involvement Update

When not working on the cars UFSAE made time to host a World in Motion Event, spent a day on the track with our chairman and enjoyed Florida football with USFSAE.

On November 17th over twenty local students ranging from 12 to 18 years old joined Gator Motorsports for an World in Motion event. During the event, students participated in a short lesson plan on gears and toured our design and manufacturing lab. With help from our members, the students assembled toy vehicles to demonstrate the importance and enjoyment of applied science.

Last year's car 84 took its last laps with the Chair of the Mechanical and Aerospace Department's current curriculum as well as to an opportunity to better understand the design project he

supports by getting a seat behind the wheel and interacting with our members in a more relaxed environment.

On the fun side of things, UFSAE was able to spend football season with alumni visiting from out of town, and by hosting a tailgate with USFSAE for the University of Florida vs. South Florida game.

Gator Motorsports has team dinners once a week to allow new members the opportunity to meet senior members in a casual environment and promote team unity. This semester UFSAE found a way for this tradition to benefit the team in yet another way: Gator Motorsports partnered with The Gelato Company to allow a portion of each meal bought at dinner to be donated back to UFSAE.



Congratulations to our Graduates!

Our team bids farewell to Luther Lloyd (BSME), Jeff Koch (BSME), Adam Glintz (BSME) and Lori Harrington (BSCE). Luther plans to attend graduate school at UF and our other three graduates will begin careers with Siemens in

Orlando, DuPont in Siberia and Chevron in Louisiana.

Member of Month

Congratulations to Dylan Edmison, Kyle Ham, Jeff Simons and Matt Gustafson for Member of the Month for September, October, November and December.



To Our Sponsors

Thank you so much for your support! Whether monetary, material, or technical support, your assistance is vital to our team. Please let us know if there is anything we can do for you, from features on our website to information sessions. We love to give back to those who support us!

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