

School's out but you would never be able to tell by walking by the Gator Motorsports shop. The hustle and bustle seen through the garage doors on Gale Lemerand rivals the craziness of the North Pole this time of year. The team has many new members who have been working hard on manufacturing the frame, while system leaders are turning out uprights, pedals and sprockets in record time.

Formula Update



This Christmas season the Gator Motorsports elves are busy in the shop manufacturing the 84 car.

This year's schedule was structured differently than previous years; we completed all design work, reviewed each design and then transitioned into manufacturing. The team chose to complete all primary design work prior to any manufacturing as a method of improving system integration and packaging, while reducing design oversights by having a CAD model that is 90% complete before we started building the 2010 car. This has already helped us design a better ergonomics package, which should be comfortable for anyone between 5'6" and 6'3", since we spent time designing a cockpit around the driver instead of just shoving the driver in whatever space was left. Currently the car is coming together with frame construction wrapping up in parallel to system component manufacturing.

The team has been holding weekly meetings with all system leaders to discuss their progress, get input from the rest of team and alumni and set new deliverables. This in combination



with the new GMS technical forum has proven to be great communication tools.

Some systems that are looking particularly promising this year are the adjustable pedal box, as well as the new differential that is externally-adjustable for torque bias ratio. Strong progress has also been made on powertrain development: a Ricardo Wave simulation was developed and validated and the effects of higher compression pistons and lower overlap camshafts were investigated (funding is pending). On the weight reduction front, we've lost about a pound from each unsprung corner of the car, and the frame is currently 15 pounds lighter than last year's. The running car's deadline is still February 1st.

A few formula team members had the opportunity to travel to Orlando for Optimum G and the PRI show in December to bring back more knowledge for our program.

University and Community Update

Gator Motorsports started off the semester just as busy as we are ending it. In the first weeks of school, members presented at engineering classes ranging from Introduction to Engineering to Mechanics of Material and Finite Element Analysis. In these presentations members talked about how the skills they learned in those classrooms are applied everyday on our SAE design projects. The team also made sure to show its Gator



Engineering pride to the student body at the fall student organization fairs as well as to potential students through shop tours.

Gator Motorsports had the honor to be the only engineering student organization to present at UF's family weekend. Members spoke to a group of freshmen student and their parents about the virtues of our program. The team has also been hosting monthly General Body Meetings.

Last month Gator Motorsports hosted a team tailgate after the FIU game for our official teammates, and our unofficial team mates (sponsors and Alumni.) In theme with this year's increased effort for communication between our alumni network, we unveiled a private team forum. This forum has been used to keep in contact with members of the past, as well as maintain records of our designs and program's history.



Members of the Month

Congratulation to our Members of the Month: Martin, Hillary and Neil, Bill and Kyle for the months of September, October, November and

December, respectfully. You are all great examples of what GMS loves to see in its members! I hope as you grow with the program you keep up your hard work.



To Our Sponsors

Thank you to all the companies, friends and families that support our program. Whether you gave Gator Motorsports your material, software, money, time, expertise, or even your son or daughter, we couldn't do it without you!

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