

GCU Racing

Issue Four – October 2019



Updates! / Karting

- Full team meeting
Wednesday 6th
November
- Karting Wednesday
6th November

GCU Racing
Karting leaderboard
1. Ian Mackie
2. Connell Rowe
3. Jake Tsang
4. Cameron
Dempster
5. Cameron Mackie

Welcome to GCU Racing 2019–

Welcome to this issue of the GCU Racing newsletter, this month we attended the learn to win event in Coventry, we learned a lot about the new rules, and set up for Formula Student for 2020.

We have a busy time ahead of us as the tasks are beginning to stack up as we get going. Thanks for your continued support of GCU Racing!

A message from the president

Thank you for checking out our GCU Racing monthly newsletter. This month the team have been progressing rapidly through the design stage of the car and have started to attach various component to the frame within C.A.D. Recently, a number of the team attended the Learn To Win event which went into detail about the new Formula Student rules for the 2020 competition. Thankfully, the designs that the team have created over the past few months will not require any changes to be compatible with the new rules. I hope you enjoy reading what the team have been working on recently and don't forget to like our Facebook and Instagram accounts.



Updates from the business teams

Fundraising team

So last month has been a busy month for the Fundraising team as we secured £1500 from the common good fund who the team would like to thank for their generous support. We have gained 2 and a half new sponsors over the last month being Lanarkshire Drivers CPC, Safe-Cut and Zircotec. Lanarkshire Drivers CPC has given us a £250 sponsorship and Safe-Cut a £1,000 sponsorship. We are in the final stages of signing off a deal with Zircotec that will grant us a 50% discount on their heat shield products for the engine team. We will be having a meeting soon with Scottish motor sport with aim to find a spot for the team to test our car.



Business team

With the release of the rules the business team is now able to start our work on the business logic case and our business model plan next month we will explain the beginning of our business plan and have finished the Logic case. We are also reaching out to the Business school and business society to attempt to recruit more business student to our team to aid with creating a business plan our selling our prototype car. If you are a business student that would be interested in gaining team working skills, experience on a professionally judged project please contact head of business Jack Hannigan at JHANNI200@CALEDONIAN.AC.UK .

Update from the business head

So, October has passed and as Lewis Hamilton says I want to thank all the team members for the continued hard work. I still have no interest in motor sport but my commitment to the team remains unchanged. This month I was apart of the team that went down to Coventry for the learn to win event. I would like to thank the university for paying the fee that was required to enter the event. I personally found the event to be highly useful for the business aspect of the project and improved my understanding of what is required for this project. It also showed me how interdisciplinary this project is and reaffirmed the fact that the team will require more that just

Updates from the design teams

Miscellaneous team – Andrew Jenkins

The Miscellaneous team have been working on making renders of the dashboard and steering wheel with the aim to manufacture that at the university, as well as doing research into the race harness and driver's seat. The team has also started on designing the front and rear wing as part of honours projects being carried out.

Control teams – Cameron Mackie

Brakes, steering, suspension, and wheel teams have been pushing hard this month to get completed CAD models done. The front end of the car is just about completed with only the steering rack and brake discs to be inserted into the assembly. In addition to this the team members that went to Coventry have been reviewing all new rule changes to ensure we get the optimal package come Silverstone. The control team are probably only 2-3 weeks away from having the whole package completed for the car

Frame and body team – Joshua Mordecai

This month we've managed to get one frame design completed and we're looking to have an additional design done by the end of November. We have also started looking into the manufacturing processes needed in order to produce the frame. As a group our goal is to finalise a frame design and to have a plan for manufacture completed by the end of December.

Electrical Team – Callum Hastie (Interim)

The electrical team have been working on a budget-orientated telemetry system and using Mathworks software to simulate the device. The Brake System Plausibility (BSPD) device is also being developed which is a required safety feature that shuts down the car in a certain scenario where the accelerator pedal is above 25% idle and the brake pedal is actuated at a high level of force.

Engine team – Louis Carlin

We made the decision in the last month that we are changing the engine. It will now be the Suzuki GSXR600-RR (2007). Thanks to TJ Scott we have this engine ready for use. The team are currently hunting down a CAD model of it. Once we have this we will be back on track.

Update from the R&D Head

As the pace is now picking up, we are getting closer and closer to start combining our design work in to one main assembly. This month I would like to thank everyone who came down to the Learn to Win event in Coventry last week. It was amazing to see 3 different cars and to draw inspiration and gain a little design guidance from them. The main takeaway for me was that every other lower budget team are facing the same challenges as we are and that, as a team, we have a good balance of manpower so that everyone is delivering work. From a management perspective as well, we are doing all the right things to work as a great team, so keep communicating! As ever, keep it up, we are getting there!

