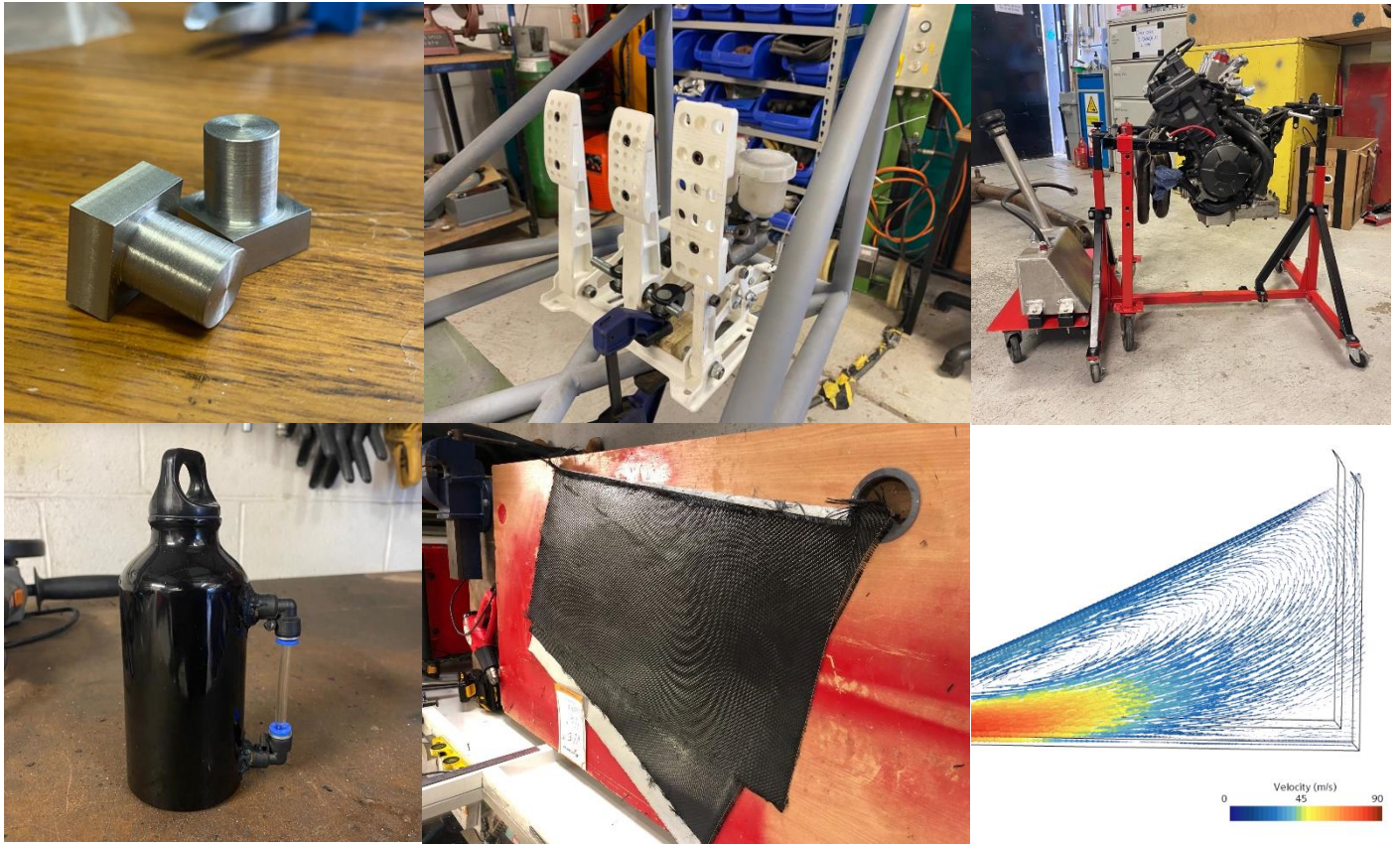




Formula Student Weekly Brief

20/02/2023

Week 5 Progress Report

University of Leicester Racing

Partnerships & Preparations

A lot of exciting developments to share from the past week. LR01 has now been completely stripped and the chassis has been placed in the Engineering building foyer for the upcoming offer holder day. The next big push is for the suspension components to be put into manufacturing by the end of this month in line with our timeline.

We are also really excited to announce that this year for the first time, UoL Racing will be partnering with Caterpillar! Caterpillar Inc. is the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. We believe that this partnership with Caterpillar will be great source of support for our team and we look forward to working with them.

Another important update this week, is that UoL Racing was selected for the RS Formula Student Build Fund of £1000. Through this fund, we will be able to revamp our control systems with new connectors, sensors and wiring. We can also look into supplementing the development of our powertrain, ergonomics and chassis. Thank you, RS!

Chassis & Ergonomics

- Drawings for seat spacers and steering rack completed
- Considerations for steering column – FEA is being carried out to compare 3 arms versus 4 arms
- 3D printed pedal box prototype has been assembled (on cover)

Suspension

- Wishbone endplate insert manufactured (on cover)
- FEA carried out on rear wishbones – good factor of safety, no areas of concern identified
- Currently working on new spacers for all suspension mounting point

Aerodynamics and Bodywork

- CFD for diffuser is coming along well – looking to extend the floor to account for 30mm ground clearance (on cover)
- First side panel is curing, PVA test cube has also been completed – follow up to check in the coming week
- Acquired some pressure sensors – passed onto control team

- In touch with local companies for support in making carbon fiber diffuser

Powertrain

- Engine stand has been modified and engine is now out of LR01 and on the stand for testing (on cover)
- Water catchcan completed – sight tube added (on cover)
- Testing of radiator ongoing – next stage is data processing
- More items ordered such as spark and cam sensors
- PT team lead practicing TIG welding

Control Systems

- Contacted several ECU companies
- Telemetry demos nearing completion
- Looking into simplifying telemetry system

Test Operations

- Reorganization of tasks and assigned to team members
- Working on creating a checklist for running and testing the car, a rough itinerary of a test day and acquiring suppliers for required pit equipment
- Linear potentiometer mounts are awaiting 3D printing to check the fit
- Members working on LTS submission are working through the tutorials

Business

- Onboarded new team members this week
- Creating video for RS grassroots fund
- Website is ready to be launched in the coming week

Thank you for all your hard work and support.

Monica Peeris

“Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.”



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