



Formula Student Weekly Brief

20/01/2023

Week 1 Progress Report

University of Leicester Racing

New Year, New Car

The team is back in action after the christmas break and exam period! We received the chassis just before the end of term putting us in a good position to start with in the new year. A lot of great progress has been made in just the first week back and the team is keen to maintain the progress making every effort to stay on top of the project timeline.

Recently, we have also been focusing on promoting our team and the Formula Student event and had an article published by our university which was shared to the local media such as BBC Leicester. Our crowdfunding is also currently at 45% of the goal. As always, we are extremely grateful for the support from the community and look forward to utilizing that to deliver our goal of a top 10 finish this year.

Round 2 of the FS Sim Racing took place this weekend at the virtual Dubai Autodrome with our drivers doing their best despite some unlucky spins and contact! We look forward to seeing their progression in the upcoming races.

Chassis & Ergonomics

- Engine mounts are completed
- Items for the steering rack are being prepared – bushings, housings, mounting etc
- Currently working on the upcoming SES submission

Suspension

- Wishbone endplate drawings have been submitted for manufacture
- All other relevant suspension drawings are ready to be submitted in the coming week
- Hardware is being sourced – washers, bolts etc
- Welding jig designs nearing competition
- Alignment jig designs in progress

Aerodynamics and Bodywork

- Currently looking into companies to source mold for diffuser
- Side panels will be now integrated one piece panel with aluminum sheets
- Discussions with chassis & ergo team regarding aero tab placements

Powertrain

- Engine has been put into the LR02 chassis
- Fittings post pump filter have been sorted out
- Diff to axle spacers are nearing completion
- Preliminary dB killer is currently being manufactured
- Radiator hoses are ready to be fitted
- Further testing to be carried out on the new radiator to confirm adequacy

Control Systems

- Development work over the break on the telemetry system – sensors can now be added easily
- Telemetry web server – testing ongoing with dummy data
- Discussing with other subsystems to decide what sensors are needed
- Diagnosing issues with PDU
- Starting development on the dashboard
- Progress ongoing on new loom design

Test Operations

- Working with University to obtain insurance for low speed and track testing – risk assessments are being completed
- Redesign potentiometers to be used on LR02
- Preliminary data obtained from strain gauge – managed to get it working with the Arduino
- Vehicle dynamics and simulation members getting used with the appropriate software

Business

- Recruitment drive for marketing, sponsorship, costing and digital media roles
- Finalization of new sponsorship documents, with outreach getting underway to local and national businesses
- Flyers to be printed for distribution promoting our fundraising efforts
- New website development in progress

CAD & Integration

- New radiator has been modelled in solid works
- Master model of LR02 is in progress

Wellbeing

- Personalized reports for the IPA-1 reports are now complete and will be sent out to the team members
- Development of risk assessment tool to assess progress of last semester and potential areas of improvement
- Preparing to conduct halfway point qualitative interviews with team leads and management

Thank you for all your hard work and support.

Monica Peeris

“We are what we repeatedly do. Excellence, then, is not an act, but a habit.”

