



XRACING NEWSLETTER

MESSAGE FROM THE TEAM PRINCIPAL

The team has had a great start to the year, with a record-breaking number of new members at 117 so far. We have kickstarted the project with a full team reorganisation to ensure we have the best chance at a successful Silverstone event this year. To achieve this ambition, we have implemented a new sub team focussed on project management to meet deadlines and mitigate any risks that may come between us and the competition. We have started the year with the goal to complete chassis manufacture by the end of term 1. This will facilitate a term 2 push to a full working car in preparation for testing. Some members of the executive group also visited the UWE Formula Student team to see how they run themselves, which was a very successful venture as it also gave us an opportunity to use their Dynamometer to test the engine in January.





CHASSIS

This year we need a brand-new chassis designed so using last year's design as a loose basis we sat down and sketched it out. We had to consider the size of the engine (and potentially a supercharger this year), the driver, pedals; and suspension mounting points in our design. We will then turn it into a Solidworks (CAD) model and run FEA software to test the side impact and impact attenuator strengths to ensure they comply with FS Rules and will withstand the weight of the engine and driver without failing. Last year we faced some delays regarding welding training which pushed chassis completion and therefore car completion closer and closer to the day we had to leave for Silverstone. This year the plan is to smash out the tested finished design by early November and weld it together before Christmas to allow work on the car to progress as efficiently as possible.

PROJECT MANAGEMENT

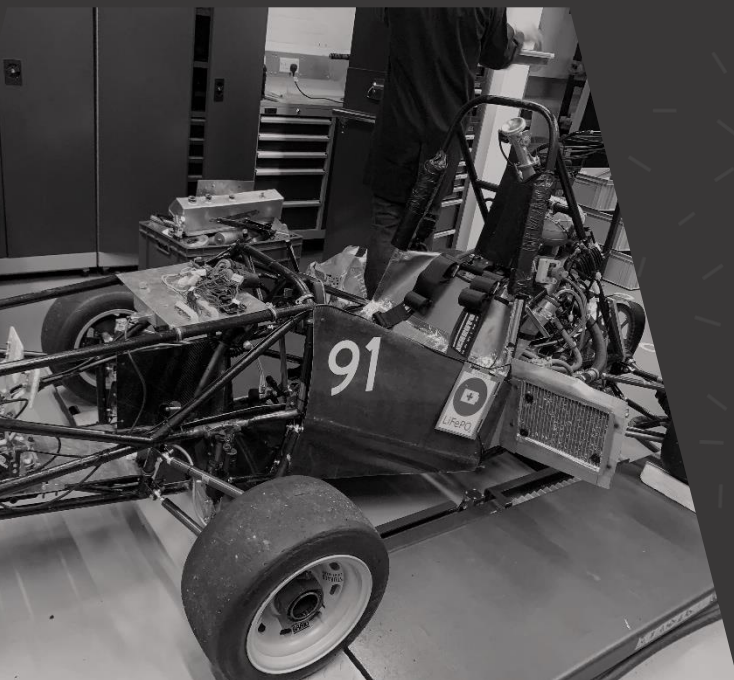
As lead project manager, my role is to develop and implement a new project management system for XRacing. Rolling in a new project and team management structure will ensure the team races at Silverstone 2023, and this will be accomplished by improving team communication, accountability, and access to resources; facilitated by a comprehensive new PLM system for XRacing.

BUSINESS

The business team have been hard at work trying to secure as many sponsors as possible for the XRacing team this year. We are hot on the trail of all of last year's sponsors and should have all those who want to continue their sponsorship confirmed in the coming weeks. As far as new sponsors go, we have a few that are in their last phases and announcements of who these are will be coming out shortly. As a key note, we are pursuing a massive sponsor that fingers-crossed, will be our main sponsor for this year, of course I cannot say who it is as of right now, but rest assured that I will be making a big thing of it if and when we secure it. Finally, I just want to reiterate that anyone with any connection to a company that could possibly sponsor us to get in touch ASAP, it would be much appreciated.

POWERTRAIN

Over the last few weeks, we have been trying to get Last year's car working which has highlighted several issues. Some of them were simple fixes, such as fuel leaks and rust in the engine's thermostat, but some will require lots more work to overcome. Because of the number of potential issues with the current powertrain, the decision has been made to take the powertrain back to basics to minimise potential errors and build the powertrain from there. This will allow us to troubleshoot individual components of the powertrain, rather than having to get them all to work at once. One of the major challenges this term will be adapting the powertrain design to the 20mm restrictor, as this greatly reduces the air supplied to the engine, therefore reducing the power that the engine can produce.



SOCIAL/WELFARE

I plan on using a variety of social events as a way to encourage team bonding - both sub-team and full team. The first social was a success, with different sub team members mixing, having fun and brainstorming about the car. I have organised our fortnightly socials to take place in the events room at All Stars Sports Bar. Members will receive discount booklets they can use anytime, including when the bar shows the F1 races each Sunday. Also, I'm currently working on anonymous welfare surveys to support our members. This support will take many forms, like one-on-one support, mental health resources or delegating tasks if they're struggling. I plan on forming a welcoming, collaborative environment at XRacing, where we support each other to reach our shared goal...creating the best race car possible.