

SHEFFIELD
FORMULA
RACING

SHEFFIELD FORMULA RACING

OCTOBER NEWSLETTER





WHERE WE LEFT OFF

Shortly after the UK went into lockdown, Formula Student unfortunately cancelled all competitions, worldwide. As such, we were unfortunately unable to attend both the British and Dutch events, the latter of which was intended to be our international debut.

However, we were lucky to get the chance to compete in a virtual version of FSUK, where we scored a respectable 9th place in static events for our design, costing and business presentations as well as scoring 14th in the virtual dynamics events out of 45 worldwide teams.

Prior to lockdown, we had a complete design, a manufactured chassis and countless parts manufactured. The whole team would like to say a big thank you to Henry Mansfield, Aidan Charity and Jonathon Mitchell for their efforts of leading the team through the difficult times brought by the pandemic.

9th
45
IN FSUK
2020
VIRTUAL
STATIC
EVENTS

“We’ve got so much to be excited about this year! The pandemic has given us the opportunity to explore new ideas and build upon the teams core design process.”
Sam Williams

WELCOME BACK!

Sheffield Formula Racing are back for the start of the new academic year and we are off to a flying start. Last week saw our team introduction meeting, held by our new Team Principal, Sam Williams, and our Faculty Advisor, Tom Slatter.

Sided by Solomon Smith, our Technical Director, and Wills Bloom, our Manufacturing Director, Sam gave the team a motivational presentation about our aims and objectives for the season ahead.

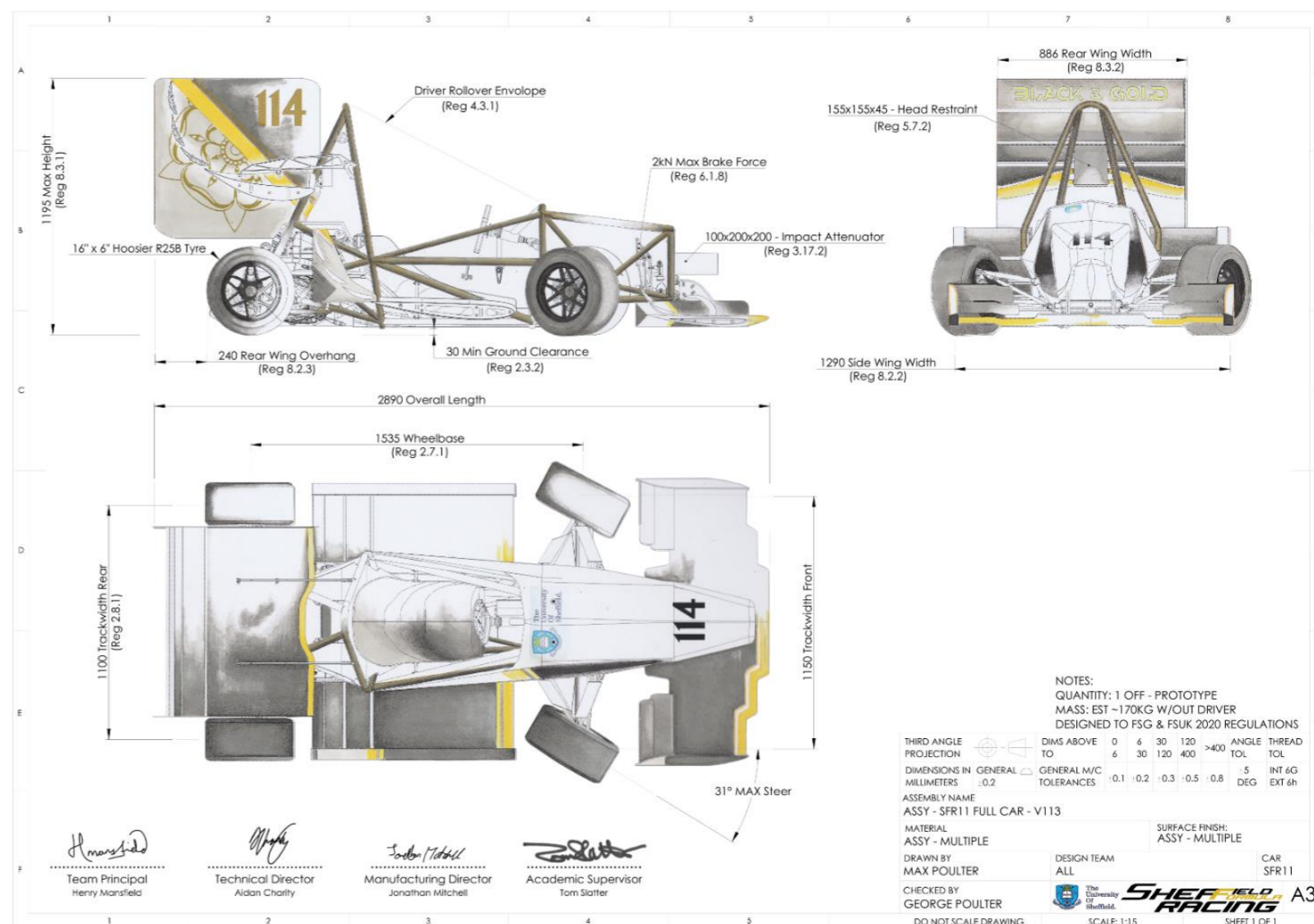
“The pandemic has given us the opportunity to explore new ideas and build upon the teams core design process. Over the next year, we’ll not only be developing last year’s car, but we’ll be testing, validating and advancing essential development projects. We’ve got so much to be excited about this year!”

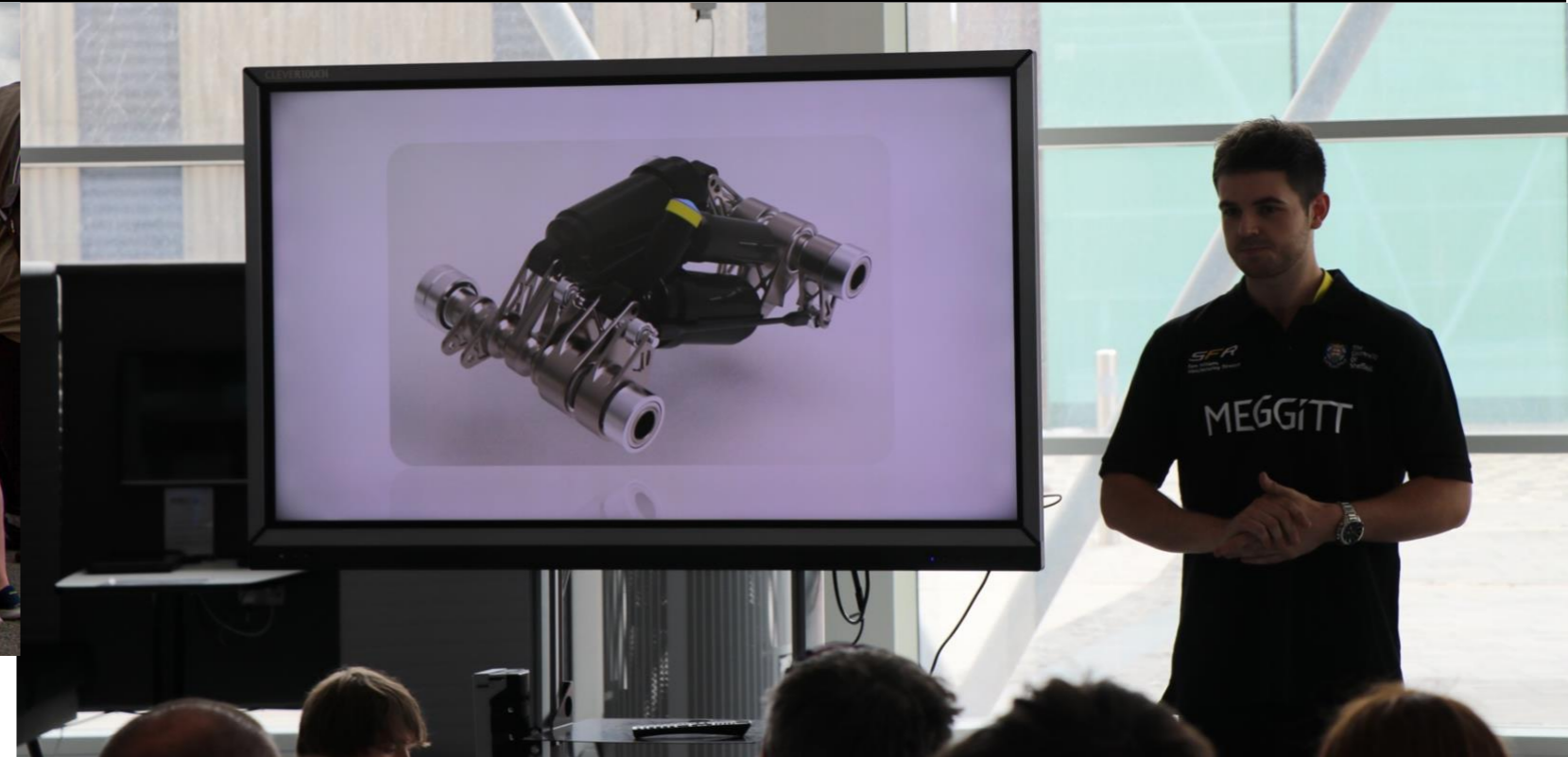
The meeting was held virtually, as all meetings will be held throughout the year, so that the team can work around the university’s coronavirus restrictions.

We hope that once it has been evaluated how we can safely work on campus in our workshops and labs that the manufacture, development and testing of the race car can continue.



Sam Williams
2020/2021 Team Principal





COVID-19 IMPACT

“The Covid-19 outbreak sadly brought an early end to the build, test, and racing of our 2019/20 car. With designs locked down and manufacture well underway, it was a great shame to have to cancel all face-to-face and hands on work in March. By this point in the year, the team had a chassis welded and aero moulds machined, putting us well on track for an early Easter launch date. It is believed this would have been our most competitive car to date, having built on the team’s continual improvement in the 10-year history of Sheffield Formula Racing, and with extensive plans for testing and development prior to racing. Furthermore, we were incredibly excited to demonstrate the performance of this car at competition in the UK at Silverstone, as well as making the team’s international debut at FS Netherlands.

Nevertheless, the year was still of value to members of SFR and the team moving forwards, with insightful experiences gained and high-quality designs ready at the beginning of the 2020/21 year. Moreover, the team pulled together in great effort for the FSUK virtual competition. We can be very proud of our strong results of 9th in the static events, and 14th in the dynamic events. I look forward to following how the team continues to adapt and develop throughout these challenging times, and ultimately seeing SFR and our car, back out on track, as soon as is safely possible!”

Henry Mansfield 2019/2020 Team Principal



WHATS COMING...

- **Sponsorship Case Studies**
- **Technical Updates**
- **Team Interviews**
- **Alumni Interviews**
- **Meet the Team**

2021 AIMS & OBJECTIVES

Our Technical Director, Solomon Smith, has outlined our new aims and objectives for the 2020-2021 season ahead.

Aim: Regain top 5 FSUK team status

Objectives:

- Produce a reliable, well tested SFR11B for the upcoming 2021 Formula Student UK competition.
- Collect as much data as possible on characteristics and specification of the car, allowing us to validate current simulation methods such as FEA, CFD and the lap simulation.
- Make use of the data to aid in the design of a future, fully electric car that will replace the ICE and compete in Class 2 entry next year
- Work on future development projects such as a carbon fibre monocoque and carbon wheels to add even more performance to the car in future years

Solomon explained “Despite the obvious challenges ahead, 2020/21 will be a huge year for the team. Being gifted the opportunity of a 2-year design cycle gives us precious time to transform the way we design for the better. We are very excited to be kickstarting the team’s transition to an electric powertrain and carbon fibre monocoque, which will pay dividends in the years to come.”

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Solomon Smith
2020/2021 Technical Director

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