DEVELOPMENT OF A WHEEL ALIGNMENT TOOL

OUR PROJECT

Formula Electric Belgium is a student-run electric race team which competes in Formula Student, the world's largest competition for engineering students. We aim to push the limits of performance, innovation and sustainability within electric racing every year, which is only possible with the help of our Thesis students. These pioneers are responsible for performance-defining innovations within the team, and we would love for you to join our team of highly ambitious and motivated engineers. As a Thesis student, you will research, design, prototype and test your innovations alongside the full-time members which make sure the team pushes itself and the car to new heights.

AIM AND OBJECTIVE

Like all motorsport cars, Formula Student cars are sensitive to setup. The most important setup variables being the camber of toe of the wheels.

One of the largest difficulties in setting up a vehicle is ensuring that the camber and toe of all 4 wheels are not only set up as intended, but more importantly that they are symmetrical on each axis.

To aid the team in setting up the car as best as possible, the thesis student/s would be expected to design, prototype and build a device/rig which would allow for the team to accurately, easily and quickly measure the alignment of each wheel.

As an extra challenge, it would be beneficial for this to be easily repairable, applicable to different wheelbases/ trackwidths, and compact.

PROFILE

- Starting a Master's in Electro-mechanics
- Motivated team player with strong communication skills
- Basic knowledge of CAD and FEM
- Diplomatic approach with companies

RETURNS

- Unique experience within a racing team
- Genuine work experience to carry with you into your career
- Exposure to cutting edge technology and software
- Contact with industry-leading corporations
- Chance to network and work with international stakeholders

INTERESTED?

Send us your contact details and field of interest to:

recruitment@formulaelectric.be