

Vehicle Dynamics

Suspension Engineer



OUR STORY

UGent Racing is a team of more than **70** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving racecar**. The team consists both of engineering students and business students. UGent Racing aims to participate in the **Formula-Student Competitions** which are organized during the summer months across different European countries. Moreover, UGent Racing intends to have a **positive impact on society** by contributing to the mobility of tomorrow and forging higher education of the future.

YOUR RESPONSIBILITIES

As a suspension engineer you are a part of the **vehicle dynamics subteam**. Here you **will design and build a suspension system** for the next generation autonomous race car. This starts by calculating and deciding the characteristic angles of the wheels (caster, camber, king pin inclination, ...) to **optimize the handling** of the race car. After this the upright, wishbones, and a push- or pullrod suspension system can be designed whilst considering different constraints such as suspension travel, rim size and integration of the suspension system into the chassis. For this you will need to make a **CAD-model** of the suspension system, taking the **production and assembly process** into account. Lastly, you will **build, test, and try to optimize the system**.

YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- CAD-skills
- Basics of machine design (technical drawings, tolerances, ...)

OUR OFFER

- Be part of a young, ambitious team of engineers and business students
- Apply your theoretical knowledge when developing useful applications
- Get the chance to participate in the international Formula Student Competitions
- Get insights in the design and workings of the suspension system of a racecar

INTERESTED?

Fill in [this form](#) together with your resume and motivational letter and we'll reach out to you soon. Contact us through recruitment@ugentracing.be if any questions would pop up.