

Vehicle Dynamics

Wheelhubs 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 wheelhub engineer, you are part of the **vehicle dynamics subteam**. You are responsible for the **design and production of the wheel side of the powertrain** of the next generation autonomous race car. The wheelhub includes every rotating component outboard of the chassis. The components are highly and dynamically loaded and critical to performance. Almost all of the parts are custom designed. An important part of the design is to optimize the weight and inertia of these parts using **CAD models and simulations**. You are also responsible for the **brakes**, a critical component for performance and driver safety. You will need to work together closely within your own team but also the suspension team. Being a wheelhub engineer is **very challenging** as you need to consider many aspects of the design while packaging it in a tight space. But is **highly rewarding** when you see your designs built and used.

YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- Experience in CAD design
- Experience in simulations

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 valuable CAD experience using Siemens NX

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.