# Drivetrain

## Transmission Engineer

## OUR STORY

**UGent Racing** is a team of more than **80** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving race car**. 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 intents 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 transmission engineer, you are part of the **drivetrain subteam**. You are responsible for the **design and production of the transmission** side of the powertrain of the next generation autonomous race car. The goal of the transmission is to transfer the power from the motors to the wheels. The transmission uses an even mix of off the shelf components and **custom designed parts**. You are dealing with fast moving, highly loaded parts critical the performance of the car. These are first designed by you and then optimized for weight and ease of manufacturing using **CAD models and simulations**. You are also responsible for the mounting of the transmission onto the chassis. Finally, you need to assemble all these components and follow up on the behavior of the transmission during testing and racing.

## YOUR PROFILE

- Highly motivated
- Committed
- Open-minded
- Communicative
- Experience in CAD design
- Experience in CAD simulations
- Out of the box thinking

## 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?

Contact us through recruitment@ugentracing.be if any questions would pop up.