



UGent Racing 2022 - 2023

Autonomous Control 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 control engineer in our Control subteam, your main focus will be to model and design a **controller** for our racecar. The controller **translates velocity and steering outputs into real-world actuator signals**. You'll primarily be working with **MATLAB** and **Simulink** for the design of the control algorithms. In the Control subteam, we'll be using **traditional PID controlling techniques**, but we also will be extending this to more **advanced algorithms like MPC** for optimal control.

YOUR PROFILE

- Knowledge of control engineering
- MATLAB & Simulink experience
- Highly motivated
- Committed
- Open-minded
- Communicative

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
- Hone your technical and soft skills in a fun and engaging (sub)team.

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.