

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 the **controllers** for our racecar. A controller **translates velocity and/or steering outputs from software 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 starting out with **traditional PID controlling techniques**, but we also will be extending this to more **advanced algorithms like MPC(C)** for optimal control.

YOUR PROFILE

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

OUR OFFER

- Be part of a young, ambitious team of engineers and business students
- Get the chance to work on an actual self-driving platform: Pegasus
- Apply your theoretical knowledge when developing useful applications
- Get the chance to participate in the international Formula Student Competitions
- See your own design coming alive on the new UGent Racing car

INTERESTED?

Send us 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, please feel free to ask.