

UGent Racing 2025 - 2026

TEAM AUTONOMOUS CONTROL ENGINEER



OUR STORY

UGent Racing is a team of more than **90** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving race car**. 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 the Autonomous Team, you will develop and optimize the core control systems that guide our autonomous race car. Your focus will be on path planning, path tracking, and vehicle control, ensuring the car follows the most efficient trajectory while maintaining stability.

You will design path planning algorithms based on SLAM-generated maps and implement control strategies to keep the vehicle on track by sending precise commands to the hardware. To push performance further, you will explore advanced techniques such as Model Predictive Control (MPC) and integrate them into our framework.

YOUR PROFILE

- Highly motivated
- Committed
- Responsible
- Communicative
- Interest in control engineering
- Coding skills
- Interest in Matlab & Simulink

OUR OFFER

- Be part of a young, ambitious team of students
- Apply your theoretical knowledge in a real-life business case
- Get the chance to work on an actual self-driving car
- Get the chance to participate in the international Formula Student competitions

INTERESTED ?

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