

UGent Racing 2025 - 2026

TEAM AUTONOMOUS SIMULATION 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 Simulation Engineer in our Autonomous team, you'll play a crucial role in developing the high-fidelity simulator that fuels the success of our autonomous race car. You will create a digital twin of our vehicle within Unity, enabling us to virtually test and predict driving behaviour in a variety of simulated environments before testing on a physical track. This will involve incorporating realistic sensor models, including LiDAR and camera. Your responsibilities will also include developing randomized environments and scenarios to thoroughly test the robustness of our autonomous driving system. Additionally, you'll create a Simulink model to replicate the car's behaviour. By implementing CI/CD tests, you'll provide the team with consistent, valuable feedback throughout the development process.

YOUR PROFILE

- Highly motivated
- Committed
- Responsible
- Communicative
- Interest in Unity & simulators
- 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.