



UGent Racing 2022 - 2023

Autonomous

Software Engineer Perception



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 software engineer in our perception subteam, your main focus will be working with **camera's**, **LiDARs** and **Machine Learning**. You'll be primarily working inside our **Perception subteam** on topics like cone detection, depth estimation and machine learning optimisation. We work with technologies like YOLO, keypoint detection, and PnP. Our hardware is professional industrial equipment from Baumer, Ouster, and NVIDIA, so you'll be working with **top-of-the-line products**. Tweak existing algorithms with the help of your team members or develop new models quickly using a **large GPU cluster**. You'll be able to validate your progress using our in-house **simulators** and **development platform Pegasus**.

YOUR PROFILE

- Interested in or knowledge of Machine Learning and Data Science
- 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.