

UGent Racing 2024 - 2025

Autonomous

Software Engineer Perception



OUR STORY

UGent Racing is a team of more than **80** ambitious, motivated, and talented **students** who build an **electric** and **autonomous driving race car**. 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 intents 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 on our Perception subteam, your primary responsibility will be to work with cameras, LiDARs, and Machine Learning. You will be involved in various tasks such as cone detection, depth estimation, and machine learning optimization, collaborating with your team members to develop and refine algorithms. We use advanced technologies like YOLO, keypoint detection, and PnP, and our hardware comprises professional industrial equipment from renowned brands like Baumer, Ouster, and NVIDIA, which ensures that you will work with top-of-the-line products. With access to a large GPU cluster, you will have the freedom to tweak existing algorithms or develop new models rapidly. Moreover, our Pegasus development platform will enable you to validate your progress efficiently.

YOUR PROFILE OUR OFFER

- Interested in or knowledge of Machine Learning and Data Science
- Highly motivated
- Committed
- Open-minded
- Communicative
- Creative

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

INTERESTED?

Contact us through recruitment@ugentracing.be. If any questions would pop up, please feel free to ask.