



# UGent Racing 2022 - 2023

## Autonomous

## Software Engineer Localization & Mapping



### 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 Localization & Mapping subteam, your main focus will be to design, evaluate and improve our **SLAM** framework. This subteam forms the **core of the autonomous pipeline** and is vital for autonomous driving. You'll primarily be working on topics in **signal processing**, statistics, **sensor fusion** and algorithmics. Localization & Mapping works with data coming from other teams, so our primary focus is using that data to run **simulations**, gather statistics, and based on that finetune hyperparameters or the architecture itself.

### YOUR PROFILE

- Analytical mindset
- Interested in signal processing/statistics
- Highly motivated
- Committed
- Open-minded
- Communicative

### OUR OFFER

- Be part of a young, ambitious team of engineers and business students
- Apply your theoretical knowledge when developing useful applications
- Get the chance to participate in the international Formula Student Competitions
- Hone your technical and soft skills in a fun and engaging (sub)team.

### INTERESTED?

Fill in [this form](#) together with your resume and motivational letter and we'll reach out to you soon. Contact us through [recruitment@ugentracing.be](mailto:recruitment@ugentracing.be) if any questions would pop up.