

## Autonomous

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## Control Engineer



### OUR STORY

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**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 intends to have a **positive impact on society** by contributing to the mobility of tomorrow and forging higher education of the future.

### YOUR RESPONSIBILITIES

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As a control engineer in our Control subteam, your expertise in **modelling and designing vehicle models** and controllers will be crucial in ensuring the success of our race car. You will work with data from **Simultaneous Localization and Mapping (SLAM)** to generate **real-world actuator signals** that translate into reliable and efficient movement. This requires a deep understanding of control theory. In addition, you will explore **advanced algorithms such as MPC(C)** for optimal control. You will have the opportunity to work with cutting-edge technologies and contribute to the development of next-generation

### YOUR PROFILE

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- Knowledge of control engineering
- MATLAB & Simulink experience
- Highly motivated
- Committed
- Open-minded
- Communicative
- Creative

### OUR OFFER

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- 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?

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Contact us through [recruitment@ugentracing.be](mailto:recruitment@ugentracing.be). If any questions would pop up, please feel free to ask.