



# UGent Racing 2023 - 2024

## Vehicle Dynamics

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## Steering Engineer



### OUR STORY

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**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

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As a steering engineer you are a part of the **vehicle dynamics subteam**. Here you will **design and build a steering system** for the next generation autonomous race car. This starts by calculating the steering geometry and looking how different factors affect **the car's handling** whilst considering different constraints such as suspension travel, minimum turning radius and steering torque. The car also must be capable of **autonomous steering**. Some sort of actuator thus has to be designed and implemented. The next important step is the **CAD - modelling** of the system, taking in to account the production and assembling process. Lastly, you will **build and test the system**.

### YOUR PROFILE

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- Highly motivated
- Committed
- Open-minded
- Communicative
- Engineering background
- CAD – skills

### OUR OFFER

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- 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
- Play a key role in optimizing the handling and feel of the next generation race car

### INTERESTED?

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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.