

## Autonomous

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## Hardware 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 hardware engineer within our mechatronics division, your primary responsibility will be to provide support to our autonomous team at the hardware level. This will involve working extensively with **microcontrollers**, **actuators** (with a focus on BLDC/stepper motors) and **sensors** such as GPS and IMU. In particular, you will be working on critical topics such as CAN networking, sensor readout, and the design and control of our autonomous steering and braking systems. We leverage cutting-edge technologies like Teensy, ODrive, and professional-grade sensors from partners like Melexis and CNH Industrial to ensure that our hardware is of the highest quality.

### YOUR PROFILE

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- Microcontroller experience
- Basic mechanical knowledge
- CAD/design knowledge is a plus
- Highly motivated
- Committed
- Open-minded
- Communicative

### 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 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?

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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, please feel free to ask.