

# UGent Racing 2025 - 2026

## TEAM MECHANICAL PEDALBOX ENGINEER



### OUR STORY

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**UGent Racing** is a team of more than **90** ambitious, motivated and talented **students** who build an **electric** and **autonomous driving race car**. 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 pedalbox engineer, you will **design and build a pedalbox** for the next generation autonomous race car. This starts by calculating the braking forces and **optimizing the weight and packaging**. This whilst considering different constraints such as pedal travel, available space, and different sensor positions. After this comes the **use of simulations** to test different loading scenarios. The next important step is the **CAD – modelling**, taking in to account the production and assembling process. Lastly, you will **build and test** the pedalbox and integrate it in the next generation autonomous race car of UGent Racing.

### YOUR PROFILE

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- Highly motivated
- Committed
- Responsible
- Communicative
- Experience in CAD design
- Innovative

### OUR OFFER

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- Be part of a young, ambitious team of students
- Apply your theoretical knowledge in a real-life business case
- Get the chance to participate in the Formula Student Competitions
- Play a key role in optimizing braking performance the next generation race car

### INTERESTED ?

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Contact us through [info@ugentracing.be](mailto:info@ugentracing.be) if any questions would pop up.