



Louis Van de Walle

vdwallelouis@gmail.com • linkedin • Ghent, Belgium

Summary

Highly motivated student with Master's degrees in Electromechanical Engineering and Artificial Intelligence combined with many leadership experiences at different scales at UGent Racing. Passion for energy generation & distribution and aspiring to make an impact.

Education

KU Leuven

Sep 2024 – Sep 2025

Master in Artificial Intelligence

Courses on Natural Language Processing, Artificial Neural Networks and Reinforcement Learning

Thesis: Reinforcement learning on transformer-based NN for self-driving race cars.

Ghent University

Sep 2019 – Sep 2024

Master in Electromechanical Engineering: 863/1000 First of Class

Major Mechanical Energy Engineering - Minor Control and Automation - Minor Automotive Production

Thesis 18/20: Modelling, design and validation of a mechanically interlinked decoupled suspension on a Formula Student car

High School Education in Belgium and France

Sint-Barbara College (Ghent) & College Saint-Winoc (Bergues)

Experience

UGent Racing

Sep 2022 – Present

Co-Captain

Sep 2024 – Present

- Led a team of 95 students across technical and business domains
- Delivered impactful speeches to audiences of over 1,000 attendees
- Developed a 4-year technical roadmap, introducing custom in-wheel motors, BMS, and a monocoque
- Secured financial stability through partnerships and sponsorships

Head Structural & Head Vehicle Dynamics

Sep 2022 – Sep 2024

- Leading a team of 15 engineers through mechanical design, implementation & testing
- Chassis, Drivetrain, Pedalbox, Driver Safety & Ergonomics (Head Structural)
- Suspension, Wheelhubs & Brakes, Steering (Head Vehicle Dynamics)

Scouting - Leader

2020 – 2022

OWF - Site manager

2019 – 2023

Volunteer in the organization of a yearly event that attracts approx. 5000 attendees.

EHSB - Machine operator

2017 – 2022

Yearly student job in construction: operating telehandlers and forklifts

Skills and Languages

Skills

Python, Git, Neovim, Matlab (Simulink), Unity, Siemens NX, SolidWorks, Fusion 360

Languages

Dutch (Native), English (C1), French (C1), German (Elementary)