



VIKTOR LAURENS DE GROOTE

Master of Science in Electromechanical Engineering: Robotics

LANGUAGES

Dutch	Native
English	C1
French	B2

HARD SKILLS

Python



Matlab



C++



Java



Office



Inventor



Simulink



Linux



ROS



SOFT SKILLS

Team player • Leadership
Taking initiative • Result-oriented
Social • Creative • Problem-solving
Analytical • Patient

HOBBIES

Tennis • Padel • Golf • Travel
Cycling • Running • Programming

CONTACT

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PROFILE

My academic and professional journey is driven by a deep-rooted fascination with nature, science, and technology. From a young age, my curiosity has been coupled with a strong inclination towards creativity, teamwork, and a desire to contribute positively to society and the planet.

I'm fascinated by applying abstract theories to develop innovative applications that propel humanity forward.

My academic path has been notably shaped by an interest in system and control theory and artificial intelligence. I have dedicated significant effort in task and motion planning projects, including my dissertation.

EDUCATION

Master of Science Electromechanical Engineering: Robotics

2022 - 2024

Vrije Universiteit Brussel (VUB) & Université Libre de Bruxelles (ULB)

Graduated Magna Cum Laude (grote onderscheiding). The master's programme gave me the opportunity to work on various projects carried out individually and in teams. As the student delegate, I had the responsibility of ensuring smooth communication between students and professors. My dissertation focused on multi-robot task and motion planning creating a new hybrid framework for collision-free motion planning of multiple manipulators.

Bachelor of Science Engineering: Electromechanical Engineering

2019 - 2022

Vrije Universiteit Brussel

Graduated Magna Cum Laude (grote onderscheiding). During the Bachelor I was assigned the role of student delegate and during these years I also worked on several projects for which I was designated teamleader by my fellow students. In collaboration with ArcelorMittal Belgium and other students, I prepared a course text for the company around the drive of DC motors.

EXTRA-CURRICULAR

Sept - Dec 2022

Driverless teammember VUB Racing

Formula SAE is an international student design competition organised by SAE International. Starting that year VUB Racing also build a driverless vehicle to compete in the Formula Student Driverless section.

Sept 2020 - June 2021

Student representative Student council

I served as a vital link between the student body and faculty/administration, advocating for student interests and welfare. Actively participated in council meetings, contributed to the development and implementation of policies affecting academic and campus life, and organized feedback sessions to gather student opinions and concerns.

WORK EXPERIENCE

Internship at Cybernetics Department

July - Oct, 2023

Norwegian University of Science and Technology (NTNU) - Trondheim, Norway

Engaged in research around distributed communication-aware path planning for autonomous underwater fleets. Developed an optical communication framework for autonomous underwater vehicles using Hydromea Luma optical modems, enhancing collaborative capabilities for oceanic restoration tasks.

Volunteer Security Teamleader

August, 2023

PSTEREO Music Festival in Trondheim, Norway

Ensuring attendee safety through monitoring grounds, managing crowds and swiftly addressing incidents. Enhancing joy of festival experience through direct engagement with attendees and providing them with information and assistance, fostering a welcoming and supportive atmosphere.

Marketing and administrative support

July - Sept, 2021

Training and Coaching Square

Optimisation of company workflow through automation of course administration, enhancing website experience and facilitating coordination necessary for moving the HQ of the company by performing all necessary calculations and simulations.