CV - **Paul van Tieghem**

CONTACT

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SKILLS

TECHNOLOGIES

PROFICIENT:
Python • Matlab • C++
Fortran • Java • Git • Linux
Autodesk Fusion 360

FAMILIAR:
Pytorch • OpenCV • ROS
Docker • SQL • C • FPGA (Verilog)

SOFT SKILLS

Communication
Teamwork
Creativity

LANGUAGES

Dutch - Native
French - Native
English - Fluent
German - Basics

EXPERIENCE

IVEX | Sensor Integration Intern
July 2020 – Sep 2020 | Leuven, BE

- Worked in team with another intern to set up IVEX's first data collection vehicle, needed to generate their own driving data.
- Installed a sensor suite (cameras, LiDAR, radar, GNSS) on the car.
- Incorporated these sensors into the Apollo Auto autonomous driving platform.
- Wrote a parser in C++ for unsupported GNSS messages, allowing for the use of 50% cheaper GPS hardware.
- Wrote detailed documentation on how to replicate the project, making rapid development of a data collection fleet possible.

JUNIOR ORSI | Member
Sep 2021 – Present | Gent, BE

- Orsi academy is a medical robotics training center, where I learn more about the use of robotics and technology in the healthcare sector through the Junior Orsi Engineering Track.

EDUCATION

KU LEUVEN | MSc in Mathematical Engineering
2021 – Present | Leuven, BE
Electives focus: Artificial Intelligence and Control Theory

KU LEUVEN | BSc in Mechanical Engineering
2020 – 2021 | Leuven, BE
Extra year during which I took almost all courses related to the Bachelor of Mechanical Engineering

KU LEUVEN | BSc in Electrical Engineering & Computer Science
2017 – 2020 | Leuven, BE
Major: Electrical Engineering
Minor: Computer Science

PROJECTS

EAGLE | Autonomous drone
Sep 2019 - May 2020

- Developed and simulated LQR controllers (attitude, altitude & position) and Kalman filters in Matlab, to then implement them into an existing C++ framework.
- Managed a team of 13 students in 5 subteams working on different parts of the drone system and led the integration of each subsystem into the final product.

AWARDS

BEST MASTER TEAM | KU Leuven Datathon
Feb 2020

- Analysed traffic data pulled from the Telraam API to make a 'Traffic Camera Deployment Advisor' tool, aiding the police for more effective traffic camera placement in terms of safety and income.
- Built a working demo, pitched the idea in front of a jury and won first place.