






JELLE UYTTEBROEK

MSC. MECHANICAL
ENGINEERING- ROBOTICS &
MECHATRONICS

 5 juli 2002, Tienen

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 <https://jelleuyttebroek.github.io/portfolio/>

PERSONAL PROFILE

I am a recent graduate in Mechanical Engineering from KU Leuven, specializing in robotics and mechatronics. My academic background has equipped me with a strong foundation in system design, prototyping, and integration of robotic systems. I am passionate about applying my skills to the development and optimization of advanced robotic solutions. I am eager to contribute to innovative projects that push the boundaries of technology and efficiency.

HOBBIES

Cycling, swimming, running

LANGUAGE SKILLS

Dutch
English
French



EXTRA

- CPR certification ReanimAid KUL
- Hockey Instructor (VTS certified)
- Driver's licence B & AM

EDUCATION

Master Mechanical Engineering (2023 - 2025)

Faculty of engineering science KU Leuven

Specialization Robotics & mechatronics

With distinction (76,02%)

Bachelor of Engineering Science (2020 - 2023)

Faculteit ingenieurswetenschappen KU Leuven

Major in Mechanical Engineering

Minor in Electrical Engineering

Secondary education (2014 - 2020)

Middenschool - Bovenbouw Sint-Gertrudis

Science & Mathematics track

WORK EXPERIENCE

Master's Thesis (2024 - 2025)

Classified Cycling

Improvement of the End-of-line test of the Powershift Hub to reduce assembly faults after testing. The use of a multibody dynamic model to assist in the development in a condition monitoring framework.

Private Tutor in Physics (2023 - 2025)

Kunde

Provided tutoring to students preparing for medical school entrance exams, offering both one-on-one sessions and group classes

Bicycle Mechanic (2023 - 2025)

KU Leuven DIY Fietsatelier

Maintenance and repair of student bikes with various problems.

Student Job in Beach Club (Hospitality) (2019 - 2022)

Hockey Coach U9 & U14 (2018 - 2020)

SKILLS

Technical skills

- **Programming** - MATLAB, Python, C+ (basics), arduino
- **CAD/CAE** - Siemens NX (FEA), Simcenter Motion (MBDM), SolidWorks, ...
- **Condition monitoring** - Vibration based
- **Robotics & control** - Classical & optimization based
- **Project management** - MS Project

Soft skills

- Teamwork
- Analytical thinking
- Attention to detail
- Problem-solving
- Loyalty
- Flexibility

Projects

- Design and testing in a small-scale wind tunnel
- Integration of a sensor in an air filter (in collaboration with Donaldson)
- Research on multi-segmented feet in bipedal robots
- Quadruped robot control (embedded and high level control)
- Athens week @ Aristotle University of Thessaloniki - *Impact of Metro Construction on the Long Term Sustainability of a Metropolitan City*