



JELLE UYTTEBROEK

MSC. MECHANICAL
ENGINEERING- ROBOTICS &
MECHATRONICS

5 juli 2002, Tienen
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PERSONAL PROFILE

Mechanical engineering graduate from KU Leuven specializing in robotics and mechatronics. Passionate about understanding complex systems and finding ways to optimize them. Experienced in robotics, mechatronics, and system design, and motivated by challenges where creativity meets technical problem-solving.

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*