



# JELLE UYTTEBROEK

MSC. MECHANICAL  
ENGINEERING- ROBOTICS &  
MECHATRONICS

5 juli 2002, Tienen  
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## PERSONAL PROFILE

Mechanical Engineer with hands-on experience in dynamic modeling, embedded systems and condition monitoring. Passionate about leveraging automation and intelligent technologies to drive innovation in design. Eager to contribute to high-impact, multidisciplinary projects within a collaborative and excellence-driven environment.

## 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*