

# François Vansnick

Mechanical Engineer

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## PROFILE

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Mechanical Engineer passionate about motorsport, automotive and high-tech mechanical systems. Experienced in mechanical design, CAD modeling and simulation, with a strong focus on precision, performance and reliability. Motivated to contribute to automotive R&D projects, prototype validation and component industrialization.

## EDUCATION

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### UCLouvain Master's in Mechanical Engineering

2023-2025

Options: Dynamics, Robotics, Biomechanics, Design, Manufacturing and Mechanics of Materials

### UCLouvain Bachelor's in Engineering Science

2019-2023

Options: Mechanics and Computer Science

## TECHNICAL SKILLS

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**Mechanical Design:** SolidWorks, AutoCAD - 3D modeling, assemblies, technical drawings, tolerance analysis

**Simulation:** SolidWorks Simulation, Abaqus, Robotran, Digimat, FEMM

**Manufacturing:** Machining, Advanced Manufacturing Technologies, Welding Science

**Materials:** Composite Materials, Process and Materials selection (Ansys Granta Selector)

**Quality & Standards:** ISO, industrial safety, process and product quality management

**Programming:** Python, MATLAB, C, Java, Arduino, HTML, CSS

**Languages:** French (Native), English (Proficient), Dutch (Basic)

## SELECTED PROJECTS

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### High-Performance Micro-Motor Test Bench Master Thesis - Collaboration with Mirmex Motor

Designed and built a precision test bench for micro-motor loss measurement up to 100,000 rpm. Integrated sensors, CAD, and data acquisition.

### Automatic Optical Fiber Spooling Machine - Collaboration with AeroSpacelab

Developed the mechanical design of an optical fiber spooling and coating system intended for satellites. Managed design iterations and mechanical integration with an aerospace partner.

### Energy Recovery from Rain - Machine Design Project

Designed and prototyped a compact rain-energy harvesting system with a micro hydraulic turbine and generator. Created detailed CAD models and functional prototype using 3D printing and laser cutting.

## SOFT SKILLS

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Analytical • Creative • Problem-solving • Meticulous and Reliable • Team-oriented • Proactive and Solution-focused

## CERTIFICATIONS

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SolidWorks Mechanical Design Certification (Dassault Systèmes, 2023) • MATLAB Onramp (MathWorks, 2024)

## PORTFOLIO

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Full portfolio with detailed projects, reports, and certificates: [vansnickfrancois.github](https://github.com/vansnickfrancois)