

# François Vansnick

*Mechanical Engineer*

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## PROFILE

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Mechanical Engineer specialized in design, modeling and simulation, passionate about aerospace, motorsport and high-performance systems. Eager to turn ideas into practical designs and contribute to real-world projects. I'm motivated and ready to apply my analytical and creative skills to develop innovative aerospace components.

## 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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**CAD & Design:** SolidWorks, AutoCAD, Fusion 360 - 3D modeling, Assemblies, Technical drawings

**Simulation:** Abaqus, Robotran, Digimat, FEMM - Finite Element and Multibody Dynamics

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

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

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

**Quality & Safety:** Industrial risk assessment, Safety standards and quality management

**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-solver • Meticulous and Reliable • Team-oriented • Curious and eager to learn

## CERTIFICATIONS

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SolidWorks Mechanical Design (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)