

François Vansnick

Mechanical Engineer

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PROFILE

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

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

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

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 Splicing Machine - Collaboration with AeroSpacelab

Developed the mechanical design of an optical fiber splicing 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

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

CERTIFICATIONS

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

PORTFOLIO

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