LANGUAGES

French	Native	●●●●●
English	Proficient	●●●●○
Dutch	Intermediate	●●○○○

STRENGTHS

Teamwork
Works effectively in multidisciplinary teams, communicates clearly, and contributes to a positive, goal-oriented environment

Problem Solving
Able to analyze complex challenges, identify issues, and deliver innovative, data-driven solutions

Organization
Skilled at prioritizing tasks, managing multiple projects simultaneously, and meeting deadlines without compromising quality

Adaptability
Quickly adjusts to new technologies and changing environments, with a strong willingness to learn and improve continuously

INTERESTS

Automotive & Motorsport
Strong passion for Formula 1, performance engineering and vehicle customization

Prototyping
Enjoy Arduino projects, 3D printing and hands-on prototyping

Aerospace
Interest in space exploration, aircraft design, aerodynamics and space technologies

Defense & Military Tech
Curiosity for defense systems, robotics and advanced engineering applications

FRANÇOIS VANSNICK

Mechanical civil engineer

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Lessines, Belgium Driver's License Birth Date: August 4, 2001
Belgian

SUMMARY

Having recently graduated with a master s degree in Mechanical Engineering, I am eager to begin my career and apply my knowledge to meaningful real-world projects. Passionate about motorsport, aerospace and mechanical systems, I am particularly drawn to design, modeling, and dimensioning. During my studies, I worked on numerous projects, including collaborations with industry partners which helped me strengthen my technical skills and gain valuable practical experience. Confident in my ability to take on new challenges, I am convinced that I can bring value to my future employer.

EDUCATION

Master's Degree in Mechanical Engineering 09/2023 - 09/2025
UCLouvain (Catholic University of Louvain) Ottignies-Louvain-la-Neuve, Belgium

Bachelor's Degree in Engineering science 09/2019 - 01/2024
UCLouvain (Catholic University of Louvain) Ottignies-Louvain-la-Neuve, Belgium

SKILLS

CAD & Design
Experienced in creating detailed 3D models and technical drawings for mechanical components and assemblies using SolidWorks, AutoCAD, Fusion 360, and Blender. Skilled in translating design concepts into manufacturable parts and optimizing assemblies for performance, cost, and durability.

Simulation & Analysis
Proficient in performing Finite Element Analysis (FEA), Multibody Dynamics, and structural and thermal analyses using Abaqus, Digimat, Robotran, and FEMM. Able to evaluate mechanical performance, predict real-world behavior, and optimize designs for reliability and efficiency.

Programming & Tools
Experienced in Python, MATLAB, C, Arduino, Bash, Java, HTML, CSS, and Office Suite for data analysis, simulation, and reporting. Familiar with PLC programming (Siemens) and integration of actuators and sensors for automation and control systems.

Material Selection & Manufacturing
Knowledgeable in selecting appropriate materials for mechanical applications using Ansys Granta Selector, considering performance, cost, and sustainability. Understands manufacturing processes such as machining, welding, and additive manufacturing, and their impact on design and performance.

Industrial Risk, Quality & Business Awareness
Basic knowledge of industrial risk assessment, safety standards, and quality management methods likeToyota Production System (TPS). Familiar with financial concepts, business operations, and basic legal principles relevant to engineering projects, enabling informed decision-making.

MAIN PROJECTS

Master's Thesis
Design and development of a test bench to measure no-load losses in high-performance micro-motors.

Master Project
Automatization of the spooling process and the epoxy application of fiber components