## 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


+32 493 55 84 31 | vansnick.frans@hotmail.com | Portfolio
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 like Toyota 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