

FRANÇOIS VANSNICK

Mechanical civil engineer

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☆ Driver's License 📅 Birth Date: August 4, 2001 🇧🇪 Belgian



SUMMARY

Recently graduated as a Mechanical Engineer, I am eager to put my knowledge into practice and start my professional career. Passionate about motorsport and the space industry, it was natural for me to pursue engineering, particularly the mechanical field. Throughout my studies, I gained hands-on experience through various academic projects and my master's thesis, covering mechanical design, 3D modeling, FEA and manufacturing of components and assemblies. Confident in my ability to take on new challenges, I am certain that I can be a valuable asset to Thales and contribute effectively to cross-functional engineering teams.

EDUCATION

Master's Degree in Mechanical Engineering

UCLouvain (Catholic University of Louvain)

📅 09/2023 - 09/2025 📍 Ottignies-Louvain-la-Neuve, Belgium

Bachelor's Degree in Engineering science

UCLouvain (Catholic University of Louvain)

📅 09/2019 - 01/2024 📍 Ottignies-Louvain-la-Neuve, Belgium

SKILLS

CAD & Design

SolidWorks, AutoCAD, Fusion 360, Blender

Simulation & Analysis

Finite Element Analysis, Multibody Dynamics, Structural and thermal analysis (Abaqus, Digimat, Robotran, femm, ...)

Programming & Tools

Python, MATLAB, C, Arduino, Bash, Java, HTML, CSS, Office Suite

Material Selection

Ansys Granta Selector

RELEVANT TRAINING/COURSES

Mechanical Design & Manufacturing

Studied machine design, advanced manufacturing technologies and welding science. Gained hands-on experience in designing mechanical components, understanding assembly constraints and manufacturing like CNC machining, SLM 3D printing.

Material & Structural Analysis

Learned mechanics of materials, material selection and mechanics of composite materials. Applied FEA tools to validate designs and optimize structural performance.

Automotive Engineering & Dynamics

Covered internal combustion engines, vehicle system dynamics and multibody system modeling. Developed skills in dynamic analysis and mechanical system optimization through academic projects.

Industrial Automation

Designed and implemented automated setups. Worked with pneumatic and electric actuators, sensors and PLC programming using Siemens systems.

LANGUAGES

French

Native



English

Proficient



Dutch

Intermediate



STRENGTHS



Project Management

Capable of organizing tasks, prioritizing and delivering projects efficiently



Teamwork & Collaboration

Sociable, able to work in multidisciplinary and cross-functional teams



Adaptability & Versatility

Comfortable with theoretical and technical work, I quickly adapt to new tools/methods



Technical Drafting

Skilled in 3D modeling, design and detailed technical drawings



Quality & Process

Knowledge of quality management methods and process reliability principles

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

INTERESTS

Additive manufacturing

Enthusiastic about 3D printing, which allows me to create and bring my own designs to life.

Automotive & Motorsport

Passionate about cars, Formula 1 and rally. I follow each motorsport competitions and have interest in vehicle customization.

Space exploration

Fascinated by astrophysics since high school, where I wrote my final thesis on black holes.