FRANÇOIS VANSNICK

Mechanical civil engineer

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Lessines, Belgium 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 the manufacturing of components and assemblies. I had the opportunity to visit SONACA's site in Charleroi during my studies, I was impressed by the company's expertise and innovative spirit, which reinforced my motivation to contribute to such ambitious projects. I am confident that I can be a valuable asset to your engineering teams.

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
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 mechanical design and advanced manufacturing processes, with practical experience in designing components, considering assembly constraints, and applying various manufacturing techniques such as CNC machining and metal additive manufacturing.

Automotive Engineering & Dynamics
Studied internal combustion engines, vehicle dynamics and multibody system modeling. Developed skills in dynamic analysis and system optimization through coding simulations and evaluating responses under varying parameters.

Material & Structural Analysis
Learned mechanics of materials, material selection and mechanics of composite materials. Applied FEA tools to validate designs and optimize structural performance, shape and materials.

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 and 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

Automotive & Motorsport
Passionate about cars and more specifically Formula 1 and vehicle customization

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