François Vansnick

Mechanical civil engineer

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Birth Date: August 4, 2001 Belgian

SUMMARY

Having recently graduated in mechanical engineering, I am eager to enter the workforce and put my theoretical knowledge into practice. Although I have no professional experience, I have a solid theoretical foundation, a strong learning capacity, and a strong desire to progress. I am particularly interested in systems integration and industrial automation, and I am convinced that I can create value and improve at Colruyt Group.

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

Programming

Proficient in Python, C, and many other languages (MATLAB, Java, Arduino – based on C++), with solid foundations in algorithms, data structures, and computer systems

Mechanical Engineering

Experience in mechanics of materials, CAD modeling, CNC machining, additive manufacturing and assemblies (SolidWorks, AutoCAD, Fusion 360)

Structural Analysis

Expertise in materials, composites and FEA programs for verification during the design process (Abaqus, Digimat)

RELEVANT TRAINING/COURSES

Mechanical Design & Manufacturing

Learned mechanical design and advanced manufacturing techniques with hands-on experience working with designing components and assemblies. Worked with manufacturing processes such as CNC machining, additive manufacturing, welding and mechanical assembly.

Automotive Engineering & Dynamics

Experience in internal combustion engines, automotive system dynamics and multi-body system modeling. Expertise acquired in dynamic analysis, system optimization, simulation and evaluation of mechanical response in various situations.

Material & Structural Analysis

Study of the mechanics of materials, composite materials and their selection. Finite element analysis (FEA) programs to validate designs and optimize structural performance based on shape and material characteristics.

Industrial Automation

Create and implement automated configurations using pneumatics and electric actuators, sensors and PLC programming (Siemens). Experienced with process automation, monitoring, and system integration.

LANGUAGES

French	Native
English	Proficient
Dutch	Intermediate

STRENGTHS

Analytical Mindset

Experienced at isolating key points, prioritizing well and addressing problems with systematic thinking

Problem-Solving

Hands-on and active, capable of seeking practical solutions and keeping calm while encountering sudden setbacks

Adaptability

Willing to learn and adopt new technology, tools, and techniques in fast-changing environments

Collaboration

Ability to work collaboratively with multidisciplinary teams and work towards common goals

Continuous Learner

Motivated to learn about automation, embedded systems, and emerging technology

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, especially Formula 1 and vehicle customization

Prototyping

Enthusiastic about hands-on prototyping, exploring electronics with Arduino and creating custom designs through 3D printing