

ROMAIN WACOMBER

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Saint-Quentin, 02691, France

Portfolio: <https://romain-wacomber-cfd-portfolio.com>



PERSONAL STATEMENT

Aerospace engineering student, **passionate about motorsport as well as aerodynamics**. Collecting automotive experiences one after the other and desiring to participate in the adventure of race car aerodynamics, fuelled by a passion for motorsport constructed through competitive karting (Rotax) and watching Formula 1, WEC. **Aspiring to become an aerodynamics engineer**, I would like to acquire as much knowledge as possible. **I am available from March 1, 2026 for a 6-month internship.**

KEY ACHIEVEMENTS

- **Performed CFD analysis on several vehicles**, including Formula 1 car: The Ferrari F2004. (Simulations available on my portfolio)
- **Participated in a very interesting course about exergy aerodynamics analysis at ISAE-SUPAERO for one week**. Exergy is a new concept in aerodynamics which offers a new look into physics and highlights the places where energy recovery devices can be implemented (drag reduction opportunities).
- **Led a team of 5 students to successfully create an airship**. Designing and programming for remote control and automatic altitude control.
- **Creating a radio-controlled car from A to Z**. 3D modelling of the bodywork and chassis and programming the various components.

PROFESSIONAL EXPERIENCE

INNIO Jenbacher GmbH, Austria

August 2024 - February 2025

Gas engine performance development Intern

- Supported several gas engine development projects focusing on performance development to improve spark plug performance and lifetime
- Analysed field validation data of various spark plug prototypes
- Supported in-house engine testing concerning combustion and flame initiation
- Developed several graphical user interfaces for analysing spark plug data
- Inspected parts in laboratory to investigate engine failures
- Supported validation of engine and component performance

Daunat, France

June 2023 – August 2023

Shipping Agent

- Worked in a factory to send out sandwiches
- Led a team of 2 people to manage shipments

EDUCATION

Aerospace Engineering Degree, ELISA Aerospace
Saint-Quentin, France

September 2021 - June 2026

- **Relevant Modules:** Fluid Mechanics, Heat Transfer, Compressible Aerodynamics, Turbulence, Numerical Analysis, Thermodynamics, Composite Materials, Finite Element Method, Machine Learning, Signal Processing, Material Resistance, Applied Probability, Discrete Linear System, Computer-Aided Design for Geometric Modelling, Flight Mechanics, Flight Dynamics, Operational Reliability, Space Mechanics, Electromagnetics, Marketing

High School Diploma, High School Pierre Méchain
Laon, France

September 2018 – June 2021

- Options: Mathematics, Physics and Engineering Science
- Obtained with high honours
- European Section: Studied mathematics in English

SKILLS

CFD: OpenFoam, Ansys Fluent, Paraview

CAD: Catia, Solidworks

Motorsport: Motec

Programming: MATLAB, Simulink, Python, C++, AVL Concerto, VBA, Arduino

FEM: ABAQUS

Microsoft Office: Word, Excel, PowerPoint

Language: French (Native, Voltaire 766), English (Fluent, TOEIC 885), Spanish (Basic), Chinese (Basic)

INTERESTS

Motorsport: Racing in Rotax Karting / Rental Karting SWS Championship / Simracing / Watching Formula 1 and WEC

Sport: 6 years of Handball / 2 years of running / 2 years of swimming