



CONTACT



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19th January 2002



Driving licence



My portfolio website:

<https://sibyllefavreau.github.io/portfolio/>

SKILLS

Finite element software:
Ansys, Abaqus, COMSOL, RDM7

Programming in Java, Matlab,
Python, WEB (html, css, js)

CAD: Solid Edge, 3Dexperience,
Adams View

CERTIFICATES – DISTINCTIONS

CFE: Certificate of completion of studies in music theory obtained in 2016 from Nantes Regional Conservatory.

CEM: Certificate of completion of studies in music saxophone obtained in 2019 from Nantes Regional Conservatory

Winner of the 2019 Young Ambassador Group Competition – Nantes Academy

LANGUAGE SKILLS

French: native
English: B2 (Cambridge certification)
Spanish: B2
Swedish: A1

HOBBIES

Music (saxophone)
Baking
Running
Painting
Hiking
Tennis

SIBYLLE FAVREAU

5th year student at INSA Lyon - Mechanical Engineering Department - Modelling and Experimentation

Seeking a 6-month end-of-studies internship starting in January 2024

EDUCATIONAL BACKGROUND

INSA Lyon (National Institute of Applied Sciences)



2019-2024 – Mechanical engineering degree

Solid mechanics - Finite element method - Numerical modelling - CAD and modelling – Design and Sizing - Dynamics and analysis of mechanical systems - Mechanical transmission - Fluid mechanics - Heat transfer - Acoustics and vibration

KTH (Royal Institute of Technology), Stockholm, Sweden



2023/2024 – University exchange semester

Research and development project, biomechanics, machine dynamics

Scientific Baccalaureate specializing in mathematics

2019 - Lycée Nelson Mandela, Nantes

Graduated with honours (18,95/20).

PROFESSIONAL EXPERIENCE

INSA Lyon – Mathematics mentoring

2021-2022

Course synthesis – listening skills – understanding and analysis of difficulties – transmission of knowledge

Maxiaide – Home help – Summer job

2022 – Lyon (1 month)

Patience – rigor – listening skills – hygiene rules

Carrefour Market – Department employee - Internship

2020 – Nantes (1 month)

Storage and restocking of shelves – application of instructions – stock and visual management of shelves – sense of organization

PERSONNAL PROJECTS

2023: Realization of a personal **portfolio** (design and development in html, css and typescript), using the Angular framework.

2023: Group project in collaboration with the French company Rheonova – Development of a system for **evaluating and controlling** the positioning of a sample on a rheometer, prototyping, bubble detector (python), **numerical simulation** of fluid deposition (Ansys Fluent) (6 months)

2022 – 2023: Group project in collaboration with the company Safran Landing Systems – **Design** of a **measurement system** characterizing the wear of an aeronautical brake disc, sizing, CAD modeling (3D experience), project management (6 months)

2022: **Modeling** a golf ball trajectory on Matlab (5 months)

2021: Mechanical analysis and **CAD modeling** of a gyroscopic stabilizer with Adams View (3 months)

2021: Analysis and **modeling** of the volleyball attack movement, Motion capture (OptiTrack), computer algebra system (Maple), resolution of **differential equations** (Matlab) and CAD (Adams View), (4 months)