

Baptiste FAUCHE

Energy engineering student

Currently in my final year of engineering studies at Polytech Orléans, I am looking for a 6-month internship in **R&D** or **design office**, starting from March 2026, in the **defense, aeronautic, or space sectors**.

Contact Information

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Driving license

Languages

- French : Native speaker
- English : **B2** Level (**895/990 TOEIC**)

Computer skills

- **Ansys** software package : **Fluent, SpaceClaim**, Mechanical, Meshing, Design Modeler
- Software/Programming languages : **Catia V5 Dassault Systèmes**, **Creo**, Abaqus, Simcenter Amesim, Flowmaster, **Matlab**, Simulink, Python
- Microsoft Office package : Word, Excel, Powerpoint

Interests

- Basketball
- Running
- Personal development
- Aeronautics Initiation Certificate
- Astronomy

Education

Double Degree – University of Orléans – Master in Fundamental Physics

Since September 2025

- **Master : Space Sciences & Applications**
- Spacecraft Propulsion, Space Plasma Physics et Space Systems

University of Mississippi - Oxford, United States of America

January 2025 - June 2025

- Nominated Chancellor's Honor Roll : **3.95/4 (Grade Point Average)**
- **Fluid Mechanics**, **Astrophysics**, Materials Science, Theory of Fields, Engineering Analysis

Engineering School - Polytech Orléans - TEAM

Since September 2023

- **Specialization : Technologies for Energy, Aerospace, and Engine**
- Courses : **Multiphysics Coupling** (Aeroacoustics, Hypersonic Flow Aero-thermochemistry, Flow Optimization and Control)
- **Advanced CFD** and **Turbulence**, **Gas Dynamics**
- Project : Optimization of the **Aerodynamics** of a Blimp

Engineering School - Polytech Nancy - Undergraduate intensive preparation courses

September 2021 - September 2023

- **Mechanics** - Mathematics - Machining processes - CAD - FEA

Professional experiences

CEA – Cadarache – Assistant Engineer Internship at the Institute for Magnetic confinement Fusion Research (IRFM)

June - September 2025

- Modeling of the hydraulic circuit of the **ITER** cooling system
- **Thermo-mechanical** analysis of plasma-facing components of a **tokamak**

General Electric Vernova - Champigneulles - Engineering Office Internship

June - August 2024

- Study topic : **cooling systems** for electric motors (40MW)
- Volute design and **optimization** (CFD and FEA on Ansys)

Safran Aero Composites - Commercy - Operator Internship

June - July 2022

- Worked in a production cell for **turbofan** casings and **blades**