

Alexandre Bernard

21 Years Old - Driving License



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9 45 Desjardins Street, Angers, France

Languages

French Native

English Proficient C1 | 985/990 TOEIC **Spanish** Intermediate B1 | Cervantes **German** Elementary A2

Interests

Space

Participated in space innovation and space-themed events hackatons

Programming

Head of Computer Club at Arts et Métiers. I built SQL database and python scripts for multiple clubs

Soft Skills

Passionate

Team Player

Curious

Persevering

Software

CAD | CAM

3D Experience CATIA Solidworks

Simulation | Finite Element

Abaqus StarCCM+ ForgeNXT

Python

NumPy TensorFlow Pandas API

Machine Learning Finite Element

Rust

Finite Element Tauri App

Internship Application Feb to Sept. 2026

I am a graduate aerospace engineering student at Arts et Métiers (France) seeking an internship focused on space systems, satellite technologies propulsions systems.



Projects & Internships

ANJE Consultant Arts & Métiers Junior Entreprise

2025

- Provided training in frontend technologies for ARPE PSY caritative
- Software Engineering and product design for different projects

Finite element analysis software Arts et Métiers

2025

- Developed software for static and vibrational analysis of beam structures in Python and Rust
- Lead a four person team for five months

N Research - BMG Machining Arts et Métiers

2025

- Study of cryogenic assistance impact on tool wear for Bulk Metalic Glass machining
- Machining chip analysis using Scanning Electron Microscope and Python

Workshop operator internship APMA

2024

 Four week training in machining and metrology for precision mechanics, with a focus on aeronautical and space applications.

NASA Hackathon NASA Space App Challenge

2023

- Design of an interplanetary magnetic field analysis tool in python
- Applied machine learning to anticipate magnetic reconnection events

Academic background

Master of Science in Aerospace Engineering Arts et Métiers, France

2023-2026

- Angers: solid and fluid mechanics, materials science, CAD, electrical engineering and project management
- Bordeaux: Propulsion systems, materials, space and aeronautical systems, MBSE methodology for aeronautical projects

Undergraduate Intensive classes in engineering Valedictorian **Engineering school ESEO, France**

2021-2023

2020-2021

Technical degree in Mechanical Engineering **University of Angers, France**

High School Diploma France

2020