

NICOLAS BROCHEN

A 19 YEAR OLD FRENCH STUDENT IN MECHANICAL ENGINEERING

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📍 Cachan, Île-de-France, FRANCE

🌐 21/04/2004

Education

2022-now

IUT DE CACHAN (INSTITUT UNIVERSITAIRE DE TECHNOLOGIE) - UNIVERSITÉ PARIS SACLAY

- BUT GMP, Bachelor Universitaire de Technologie, Génie Mécanique et Productique (current second year in apprenticeship).
- A **Mechanical Engineering** three year diploma, with a total of **2,000 hours of academic instruction** and **600 hours of practical work**, equivalent to 180 ECTS (European Credit Transfer and Accumulation System).
- Majors are Mechanics, Manufacturing, Design and Make, Strain and Stress including FEA, Robotics/Programming, Mathematics and Communication Skills.
- Currently working as an **apprentice at Airbus Helicopters** at Le Bourget.

2019-2022

- Obtained the **Baccalauréat** Scientifique (A-level equivalent) with distinction.
- Specialities: Mathematics, Physics-Chemistry and NSI (Numérique et sciences informatiques), with **advanced Mathematics**.

Work experience

2023 - now



AIRBUS HELICOPTERS - LE BOURGET - FRANCE

- I am currently in an apprenticeship for 2 years with Airbus Helicopters.
- Working in design office as a **Tool designer** for the workshop where the front and rear blades are produced.
- My first mission was to design a tool to control the twisting of a rear blade thanks to **CATIA**. The solution was a 3D printed support with Stratasys printer.
- Personal skills:
 - Enjoy **collaborative work** as part of a team but can work **independently** with minimum supervision, taking **responsibility** and **initiative** where required.
 - **Identifying needs**, being resourceful: finding new, innovative ways of **solving a problem**.

1 month (2023)



INTECH MEDICAL - SAINT-SOUPPLETS - FRANCE

- Work in a design office as a **design draughtsman** for 1 month during the holidays.
- I worked with the software **CREO** exclusively **the sheet metal tool**, made **drawings** and exports (STL, DXF and PDF).
- Developed the ability to **work with a new software** and became **meticulous** as a result of this.

Project experience

- **1st IUT project:** with a classmate, we designed a **luthier's miter box**, which we built using a **milling machine**. It was my first long project (5 months), I have developed personal skills like **working as part of a team** and **project organisation**.
- **Personal projects:**
 - Design of a **rim and tyre copy** for my radio-controlled car. It was my **first technical project**. I learned how to print flexible filament and to adjust the hardness of the tyre.
 - Design and 3D printing of my phone case with flexible filament.

Activities and Interests

- **Design & 3D printing**
- New technologies - Robotics, programming, electric vehicles and AI
- **RC Cars** - Radio-controlled cars
- Sports: practicing **athletics** (Cross Country 2018-2022) and **mountain biking** (Club 2011-2016). Competition has strengthened my mind and **taught me not to give up**.

COMPUTER SKILLS

- **SolidWorks** ★★★★★
- **TopSolid** ★★★★★
- **Python** ★★★★★
- **Catia** ★★★★★
- **Office Suite** ★★★★★
Excel, Word, PowerPoint, MS Project...
- **Python** ★★★★★
- **Visual Basic** ★★★★★

LANGUAGES

- **French** - mother tongue
- **English** - A2 Level

Website

nicolasbrochen.fr/en/

References

Available on request