

Bastien Gaffet

Engineering Student / Creative Builder

PROFILE

Engineering student with a passion for building systems where mechanics, software and design converge. I approach every project with curiosity first and craft second. Comfortable moving between embedded hardware and interface design, between algorithm logic and physical execution. Always looking for the intersection where things work well and feel right.

EXPERIENCE

Robot J4 2024 / 2025

Robotics / AI / Computer Vision

- Designed and built a robotic arm playing Connect Four autonomously against a human.
- Minimax algorithm with custom heuristics for optimal decision-making up to depth 6.
- Python + OpenCV pipeline for real-time board state recognition via camera feed.
- Arduino UART serial link between the Python decision engine and the physical arm.

Sports Club Board Member 2023 / Present

Volunteering / Association Management

- Member of a sports club board. Administrative management, event organisation and coordination between members and governing bodies.
- Collective responsibilities in a voluntary associative setting.

Classroom Construction, Ourika Valley 2024

Humanitarian Project / Morocco

- Built an additional classroom in a village near Chicker where 40 primary students across 4 year levels shared a single room. On-site work included rebar fabrication, stone foundations, concrete mixing and slab pouring.
- Produced the initial architectural plans in collaboration with the local development association.

EDUCATION

CPGE PCSI 2024 / Present

Lycee Descartes, Tours

- Preparatory classes for engineering schools. Physics, Chemistry, Engineering Sciences.
- TIPE research on epoxy resin mechanical properties in composite structures under stress.

French Baccalaureat 2024

Lycee Vaucanson, Tours

- Mention Tres Bien, felicitations du jury (highest honours with distinction).
- Specialisations: Maths, Physique-Chimie, Maths Expertes.

AWARDS & RECOGNITION

Concours Cgenial, National Winner

First place at the national final, 2024. Leading French science and engineering competition for high school students.

CERN European Prize, EUCYS Latvia

CERN European Prize at the European Union Contest for Young Scientists, Riga, 2025.

Your photo

CONTACT

Email
your@email.com

GitHub
github.com/YOUR_GITHUB

LinkedIn
linkedin.com/in/YOUR_LINKEDIN

Website
bastiengaffet.com

SKILLS

Languages

- Python
- Arduino (C++)
- HTML / CSS / JS

Domains

- Robotics & Embedded
- Computer Vision
- Algorithm Design
- Interface Design

INTERESTS

- Astrophotography
- Guitar
- Volleyball
- Video Games
- Reading
- Astronomy

LANGUAGES

French

Native

English

Fluent, professional