



# Joshua Sacchet

Electronics engineer keen to innovate for tomorrow

Hardware Engineer with extensive experience in antenna design, RF engineering, and embedded systems. Strong background in digital and analog electronics, with a proven ability to innovate in hardware design for cutting-edge applications. Passionate about pushing the boundaries of technology through precise and efficient hardware solutions.

- B and 125cc licences
- 23 years old
- Limoges, France
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## Languages

French	●●●●●●●●
English	●●●●●●●●
Spanish	●●●●●●●●
Dutch	●●●●●●●●

## Skills

### Programming

- C++, C, Assembly
- Java, Processing
- of ATmega, of STM32
- Bash, Python, LATEX

### Software

- KiCAD, Altium
- VS Code, STM32cube, GIT
- CST Studio Suite, HFSS
- OpenSCAD, Blender, Fusion
- Arch, Debian, Windows
- Matlab Simulink, Eclipse

### Handling

- French accred electrical work
- Advanced soldering

Autonomy

Rigor

Curiosity

Team spirit

## Hobbies

- Rock Climbing, Nature
- Arduino, Auto. industry
- Ethical Hacking, Factorio,
- Rimworld, FTL, KSP, Portal

## EXPERIENCE

2021 - 2024 **Business creation | Invention of a safety device** France

- Final phase for the creation of the catalarm company.
- Production of an autonomous alarm to deter catalytic converter theft.
- STM32, Arduino, SigFox, GPS, Gyroscopes, Accelerometer, Siren.
- Presentation at VivaTech & DCF(executives and salespeople of France).
- Market study, Business Plan, IP protection.



2023 : 5 mths **Internship at XLIM with the CEA | RF Engineering** Limoges

- Optimization of a high-power antenna network with CST.



2020 : 3 mths **Internship at CEA | Industrialization of a simulation program** France

- Reverse engineering files in binary format.
- Java automation of Ombroscopy image simulations by ray-tracing.



2022 : 2 mths **P.C.I. | Repair Technician** Limoges, Boisseuil, Brive

- Repair/soledring of devices, advice/sales, openings/closings.



2017 - 2021 **IT services** | Setup, troubleshooting, training Lot

2020 : 1 year **Sorting chain** | Various night shifts at Chronopost Limoges

2019 - 2024 **Interim** | Removals, HCl cleaning, Hospitality, drive Limoges

## EDUCATION

2019 - 2024 **ENSIL-ENSCI | Electronics and Telecommunications Engineer** Limoges

- CAD and PCB Fabrication, Program. of  $\mu$ processors (C/C++).
- Digital and analog electronics, signal processing, DSP, FPGA.
- Electromagnetism and wave propagation, Embedded systems.
- Design and analysis of integrated circuits, Programming (A, Java).
- Telecoms, security and computer networks. Automatic and regulation.



2022 - 2024 **Student Entrepreneurship Diploma & PEPITE | National winner** Limoges

- Double diploma and training on business creation & management.
- Pitch to multiple partners, submission of a Business Plan.
- National winner of the PEPITE prize in technological innovation.



2024 : 3 mths **French Tech Tremplin | Entrepreneurship training** Bordeaux



2016 - 2019 **Louis-Vicat High-school | Bachelor of science** Souillac

- Mathematics specialty, member of the Life Council.

2014 & 2018 **PGASK | IT internships** Montvalent

- Repairs, PXE setup and video surveillance, mastery of GNU/Linux.



## PROJECTS

2024 **Franco-Belgian AgriTech | Entrepreneurship in innovative agriculture** Limoges

2022 - 2023 **ENSIL-ENSCI and IMS | Domotics** Limoges, Brive



2019 **MATh.en.JEANS Congress | English presentation at Paul Sabatier Uni.** Toulouse