

# RAPHAËL CASSARD

Student Engineer in Electronics at ENSEEIHT

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Driving License B



## EDUCATION

- **Engineering Degree (MSc equivalent)** Sep 2024 – Present  
ENSEEIHT, Toulouse, France. Branch : Electronics, Electrical Energy, and Automation.
- **Intensive Preparatory Classes (PCSI - PC\*)** Sep 2022 – Jul 2024  
Lycée Henri Poincaré, Nancy, France. Intensive studies preparing for Grandes Écoles entrance exams.
- **Scientific Baccalauréat (High School Diploma)** 2019 – 2022  
Lycée Marquette, Pont-à-Mousson, France. Graduated with distinction (*Mention Très Bien*).

## PROFESSIONAL EXPERIENCES

- **Industrial Maintenance Mechanic** Jun – Aug 2025  
Rénovation Machines Industrielles (RMI), Nomeny (and numerous industrial sites), France.
  - Gained extensive hands-on experience in industrial maintenance mechanics.
  - Developed technical versatility and autonomy, fostering adaptability in high-pressure industrial environments.
  - Performed maintenance and intervention on a wide variety of machinery across multiple industrial sites and in workshop environments.
- **Biomedical Equipment Operator** Aug – Sep 2023  
Quipment, Nancy, France.
  - Performed preventive maintenance and configuration of medical devices.

## SKILLS

- **Hard Skills:**
  - **Analog & Mixed-Signal:** PCB Design (Altium/PSpice), Multistage Amplifiers sizing, Active Filtering, VCO/PLL systems, Push-Pull Power Stages, Optoelectronics.
  - **Embedded & Digital Systems:** VHDL (Vivado/Artix-7), Microcontrollers (PIC18F/MPLAB X), Embedded C, UART/NFC protocols, PWM control, XADC interfacing.
  - **Signal Processing:** Matlab/Simulink (FIR/IIR filtering), Statistical Diagnosis (Neyman-Pearson), Fixed-point DSP implementation, Signal Characterization.
  - **Software:** PSpice, PLECS, ADS, Vivado, Quartus, Python, C/C++, TeX(Overleaf), Excel.
- **Soft Skills:** Team Leadership (70-member team coordination), Project Event Logistics, Technical Autonomy, Adaptability in Industrial Environments.
- **Languages:** French (Native) • English (B2+ Cambridge Cert.) • Italian (A2 - Intermediate student).

## STUDENT INVOLVEMENT & HOBBIES

- **Student Involvement:**
  - **Afterwork Manager (2024 – 2025):** Active member of the **ENSEEIHT Student Association**. Responsible for organizing weekly social events at the student union bar ("Foyer"), managing logistics and community life.
  - **Vice-President of an Election List (2024):** Coordinated a 70-member team for student elections. Managed a budget exceeding **15k€** and organized multiple large-scale cultural and festive events.
- **Hobbies:**
  - **Competitive Swimming (Regional Level):** High-intensity training and competitions, fostering strong discipline, resilience, and endurance.
  - **Electric Guitar (8 years):** Practiced in both solo and band settings; developed creativity, artistic expression, and team collaboration.