

THÉO RODRIGUES

Second-year Engineering Student in
Electronics and Embedded Systems

Seeking an international engineering internship
Available for a 4-month internship starting May 26, 2025.

🇫🇷 21 years old - FRANCE

📍 31400 Toulouse

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🚗 car license

✉ rodrigues6631@gmail.com

Education

● High school

Notre-Dame de Bon Secours
PERPIGNAN FRANCE
2018 - 2021

High School Diploma with a focus
in Mathematics and Chemical
Physics

● Engineering school

CESI TOULOUSE FRANCE
2021 - 2023

Preparatory class with a
specialization in Electronics and
Embedded Systems

● Engineering school

CESI TOULOUSE FRANCE
2023 - 2026

Major in Electronics and
Embedded Systems

Language

French : Native

English : B1 Proficient (TOEIC 700)

Diploma

- Federal Tennis Initiator **Diploma**
- **Aeronautics** initiation certificate
- **Bachelor's degree** in mathematics and chemical physics

Hobbies

Tennis, Hiking, Vidéo, Traveling
Physical exercise, Rugby, Football,
Gym, Reading, Art, Music, Swimming

References



Portfolio



<https://nookse.github.io/Portfolio/>

[Linked in](#)

Experience

AIRBUS APPRENTICE TESTS MEANS ENGINEER AIRBUS AIRCRAFT - TOULOUSE 2023 - 2026

- Developed a Python-based GUI to convert CSV and XML files
- Developed test reports and procedures to verify communication protocols on avionics test benches.
- Conducted research to optimize power efficiency on test benches level by implementing connected PDUs.
- Participated in various meetings involving team budget management and planning, with regular coordination across multidisciplinary teams.

LID INTERNSHIP EMBEDDED SOFTWARE ENGINEER LID TECHNOLOGIES - TOULOUSE April - july 2023

- Conducting software validation for a universal pressure sensor to ensure reliability and performance.
- Crafting detailed test plans and comprehensive test reports.
- Developing a robust software tailored for TPMS sensor functionality.
- Analyzing LF and RF frequencies to optimize sensor data transmission and reception.

Skills

Software and Hardware Skills (Python, C++, CAD, etc..)

- Programming: C++, C, Python, Linux-based coding, SQL, Arduino, HTML/CSS.
- Software: GitHub, Logisim, Scilab, LTspice, PyCharm, VS Code, KiCad.
- Hardware: CAD modeling, PCB design, electronics system development.
- Signal Processing: Amplification, modulation, filter optimization.
- Developed project management skills by contributing to cross-functional meetings, managing team budgets, and using tools like Jira for task tracking and planning.

Academic Projects

Key Academic Contributions

- Embedded Systems: Designed a weather station with sensors using Arduino.
- Electronics: Built a multi-level authentication system for a strongbox (Arduino).
- Servo-Control: Developed a PID-controlled rotating plate for a ball gun.
- Signal Processing: Developed a system for message recovery with Python.
- Amplification: Created a loudspeaker with amplifier and filter.
- Networks: Simulated a company network with Packet Tracer.