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

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🚗 car license

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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 exercice, Rugby, Football, Gym, Reading, Art, Music, Swimming

Experience

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.

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.

Academic Projects

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

References

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