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

Skills

- **Programming**: C++, C, Python, Linux-based coding, SQL, Arduino, HTML/CSS, Git.
- **Software**: GitHub, Logisim, Scilab, LTspice, PyCharm, VS Code, KiCad, LabView.
- **Hardware**: CAD modeling, PCB design, Electronics system development, Amplification, Modulation, Filter optimization.
- **Project management** : Planning, Budget, Teamwork, Jira, Adaptability

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 - 2026
Major in Electronics and Embedded Systems

Language

French : Native

English : B1 Proficient (TOEIC 700)

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.
- Participated in various meetings involving team budget management and planning, with regular coordination across multidisciplinary teams.

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.

ACADEMIC PROJECT IN EMBEDDED SYSTEMS
CESI ENGINEERING SCHOOL - TOULOUSE

- 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/

Linked in