

31100 Toulouse
0 à 1 an d'expérience
Réf : 2608041358

Embedded systems engineer

Ma recherche

Je recherche tout type de contrat, sur toute la région Occitanie, dans le Batiment.

Formations

12/2025 : Bac +5 à USTHB, Algiers
M1 - Embedded Systems Electronics

01/2025 : Bac +5 à Université Paul Sabatier (Toulouse III)
M1 - Embedded Systems & Microsystems

12/2024 : Bac +3 à Mohamed Boudiaf University, M'sila
Bachelor's Degree - Electronics

09/2024 : à Alamal Training Institute, Batna
Electronics & Mobile Phone Repair (Training) Component-level diagnosis, SMD soldering, IC replacement

07/2021 : à CFBI, Oran
HSE Training (Health, Safety & Environment) Industrial safety standards, risk management in lab environments

Expériences professionnelles

01/2026 - 12/2026 :
BEE_RUCHE - IoT Smart Beehive Monitor chez Université De Toulouse sur Toulouse
Integrated and calibrated multiple sensors (SHT31, DHT11, HX711) on STM32L476RG via I2C and 1-Wire;
Developed STM32 firmware (HAL) for real-time data acquisition; Configured LoRa module via AT commands for wireless data transmission; Designed two-board emitter/receiver architecture with custom hex packet decoding; Displayed real-time data on RGB LCD.

01/2026 - 12/2026 :
EV Charging Station - Embedded C++ System chez Université De Toulouse sur Toulouse
Designed multi-module C++ architecture: card authentication, PWM generator, lock, timer, LED indicators; Implemented inter-process communication via POSIX shared memory; Produced full Doxygen documentation.

01/2026 - 12/2026 :
P/N Junction Diode Fabrication in Cleanroom chez Aime Lab - Toulouse sur Toulouse
Full cleanroom process: photolithography, HF etching, Al metallization, I-V characterization.

01/2026 - 12/2026 :
EMC / Signal Integrity Lab - LTSpice chez Université De Toulouse sur Toulouse
Simulated transmission lines, reflections, crosstalk and shielding strategies; performed frequency-domain analysis and experimental validation.

01/2025 - 12/2026 :

TER Project - DAB Converter chez Université De Toulouse sur Toulouse

Integrated and calibrated multiple sensors (SHT31, DHT11, HX711) on STM32L476RG via I2C and 1-Wire;
Developed STM32 firmware (HAL) for real-time data acquisition; Configured LoRa module via AT commands for wireless data transmission; Designed two-board emitter/receiver architecture with custom hex packet decoding; Displayed real-time data on RGB LCD.

Langues

Arabic (Oral : maternelle / Ecrit : expérimenté), French (Oral : courant / Ecrit : intermédiaire), English (Oral : courant / Ecrit : intermédiaire)

Centres d'intérêts

DIY Electronics, Robotics, AI, Reading