

57070 Metz
5 à 10 ans d'expérience
Réf : 2608260408

Embedded iot engineer

Ma recherche

Je recherche tout type de contrat, sur toute la région Grand-Est, dans le Batiment.

Formations

09/2020 : Bac +5 à École Supérieure d'Ingénieurs en Génie Électrique (ESIGELEC)
Masters of Science in Electronic Embedded Systems

06/2016 : Bac +3 à CVR College of Engineering
Bachelor of Engineering in Electrical and Electronics

Expériences professionnelles

12/2025 - 03/2026 :

Embedded IoT Engineer (Freelance Project) chez Befreest Srl sur Taranto

Developed and integrated an IoT-based radon monitoring system (sensor data acquisition, LTE/4G connectivity, secure MQTT transmission to AWS). Integrated RM75 radon sensor via UART with Arduino MKR NB1500. Developed firmware in C++ (Arduino IDE). Performed PCB integration, SD card logging and LTE/4G communication using AT commands.

11/2021 - 10/2025 :

Embedded IoT Engineer chez Georgiatech Cnrs & Institut Lafayette sur Metz

Led an IoT platform for indoor air quality management (CO₂, PM2.5, VOC, Lux, temperature, humidity, relays, Shelly). Designed PCBs in KiCAD and firmware (ESP32/C++) with SPI/I2C/UART, Wi-Fi, MQTT, ESPHome/RTOS, telemetry to InfluxDB, Node-RED, Grafana. Managed Docker-based ESPHome deployment, sensor calibration (LabVIEW), power/energy monitoring via Modbus, Zigbee, LoRa, RFID. Implemented AI-Prophet predictions, SQL query automation, 2D/3D visualisations (Python/Matplotlib/Streamlit/Plotly), SolidWorks mechanical design and 3D printing, UWB localisation proof of concept.

10/2019 - 03/2020 :

Embedded Hardware Engineer chez Cherry Biotech sur Rennes

Designed full electronic hardware for a wearable medical device (IBraclet) to monitor impedance and stream encrypted data. Developed firmware (MPLAB, C++) for PIC32, implemented data acquisition, pressure sensing, lock-in amplification, DDS signal generation and Howland current pump. Created PCB in KiCAD, 3D enclosures in SolidWorks, and integrated BLE communication.

03/2019 - 06/2019 :

Embedded Hardware Engineer chez Faurecia sur Bavans

Engineered a PWM-driven smart EGR actuator with shaft rotation sensing and LIN communication. Designed schematics in EAGLE, PCB layout, and MATLAB simulations for motor and temperature control. Reverse-engineered EGR valve PCB for testing methodology development.

Langues
