

Embedded Firmware Engineer

75000 Paris · 3 à 5 ans d'expérience · Réf. 2608260019

Ma recherche

Contrat recherché : Tout contrat

Zone : Ile de France

Mobilité : sur toute la région

Rémunération : à étudier

Secteur : Batiment

Formations

12/2022 — Bac +5 — National School of Computer Science (ENSI)

Computer Science Engineering Degree - Embedded Systems

12/2019 — Preparatory Institute for Engineering Studies of Sfax (IPEIS)

Preparatory Engineering Studies

Expériences professionnelles

04/2025 - à ce jour — Embedded Software Engineer

Develop embedded firmware and application software in C++, Python and Shell for an IoT alarm gateway and connected keypad, siren and door sensor devices. Developed state machines, low power behavior, Matter integration (endpoints, clusters, custom attributes), OTA A/B updates, U Boot adaptation, debugging with GDB and end to end testing.

10/2022 - 04/2025 — Embedded Software Engineer

Developed C/C++ firmware on ESP32 and STM32 for smart energy monitoring, integrated Modbus driver, Wi-Fi/MQTT telemetry, OTA updates and serial upgrade of STM32 via ESP32. Implemented Edge AI presence detection using TensorFlow Lite on ESP32, and built connected parcel system with E-Paper, NFC and sensor suite. Designed obstacle detection system for the blind on Jetson Nano with IMU, camera, and deep learning model.

02/2022 - 09/2022 — Graduate Engineering Intern - Software Engineer

Developed C++ features for Multi-FPGA prototyping applications, designed configuration tooling for routing multiplexing, optimized shortest path routing algorithms and contributed to debugging, performance analysis and automated testing.

Atouts

C, C++, Python, Shell, STM32, ESP32, nRF52840, Rockchip RK3328, NVIDIA Jetson Nano, FreeRTOS, Embedded Linux, OpenWrt, UART, SPI, I2C, Modbus, NFC, Matter (IoT protocol), Thread, MQTT, BLE, Wi-Fi, Ethernet, 4G/LTE, OTA updates, U-Boot integration, Watchdog, GDB, Git, CMake, CI/CD, TensorFlow Lite, TinyML, INT8 quantization, OpenMP

Fiche anonyme — l'identité et les coordonnées du candidat sont communiquées aux recruteurs qui en font la demande sur pmebtp.com.