

Corentin Raoult

EMBEDDED SYSTEM ENGINEER

St Aubin d'Aubigné, France

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🐙 corentin-R | in corentin-raoult



Summary

Passionate about embedded computing, motivated to participate in all phases of a project, from design to commissioning.

Experience

Chapsvision

SOFTWARE ENGINEER

- Development and maintenance of a network probe in C and Python
- Designed and developed network analysis tools and Wireshark plugins

Paris, France

Since May 2024

Mors Smitt (Wabtec Group)

EMBEDDED SYSTEM ENGINEER

- Development of an EMS system for railway application
- Implementation of tests and code analysis tools in C#

Sablé, France

Jan. 2022 - May 2024

Thales

EMBEDDED SYSTEM CYBERSECURITY ENGINEER

- Development of an IP encryptor in C/C++ under PikeOS and a simulator under Linux
- Implementation of tests and code analysis tools in Python

Cholet, France

Jun. 2021 - Dec. 2021

SpringCard

EMBEDDED SYSTEM ENGINEER

- Specify and develop features on firmwares for RFID readers and IoT products
- Creation of SDKs on Windows, Linux and Android
- Développement et maintenance de centrales de contrôle d'accès sous Linux embarqué
- Vérification, validation et certification des produits et protocoles implémentés
- Technical environment: Renesas RX, RL78, Microchip AVR32, Visual Studio, mono/.NET, Buildroot, Android Studio, Cordova, SDR (RTL2832U, LimeSDR mini), GNU Radio, RF sniffer

Angers, France

Feb. 2016 - Jun. 2021

Pellenc S.A.

INTERSHIP: SOFTWARE ENGINEER

- Specification and implementation of a CAN-USB-WiFi bridge on microcontroller
- Conception of the PCB
- Technical environment: Microchip PIC24, MPLAB-X, Qt Creator, Qt, WiFi, USB, bus CAN

Pertuis, France

Jul. 2015 - Dec. 2015

Skills

Programming

C/C++, C#, Java, Kotlin, Python, PHP, Javascript, Bash, VHDL, \LaTeX , HTML, CSS, R

Platforms

Microcontroller, FreeRTOS, Embedded Linux, Window desktop and Linux, Android, FPGA

Protocols

RFID HF and UHF, NFC, PC/SC, WiFi, BLE, OSDP, CAN, USB, LoRa, HTTP, MQTT, TLS, SPI, I²C, UART

Tools

Git, MySQL, Buildroot, Matlab, Wireshark, Gitlab CI, SDR, GNU Radio, OpenSCAD, Virtualbox

Languages

French (native), English (B2), German (A2)

Other

Driver's license, Youth work diploma, PSC1, Lifeguard qualification

Education

ISEN - Institut Supérieur d'Électronique et du Numérique

ENGINEERING DIPLOMA

- First and second year of the engineering programme, major in embedded systems
- Preparatory classes: two-year undergraduate intensive course in mathematics and physics

Brest, France

Sept. 2010 - Dec. 2015

UQAC - Université du Québec à Chicoutimi

M.Sc. IN COMPUTER SCIENCE AND ENGINEERING

- Last university year aboard as part as a double degree with ISEN Brest

Chicoutimi, Canada

Aug. 2014 - Jul. 2015