

# Corentin Raoult

EMBEDDED SYSTEM ENGINEER

5 Allée Valériane, 49100 Angers, France

☎ (+33) 06 75 81 14 88 | ✉ corentin.raoult@vivaldi.net | 🌐 corentin-r.github.io

🐙 corentin-R | in corentin-raoult



## Summary

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

## Experience

### 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

Since Jan. 2022

### 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

|                    |  |
|--------------------|--|
| <b>Programming</b> | C/C++, C#, Java, Kotlin, Python, PHP, Javascript, Bash, VHDL, $\LaTeX$ , HTML, CSS, R                      |
| <b>Platforms</b>   | Microcontroller, FreeRTOS, Embedded Linux, Window desktop and Linux, Android, FPGA                         |
| <b>Protocols</b>   | RFID HF and UHF, NFC, PC/SC, WiFi, BLE, OSDP, CAN, USB, LoRa, HTTP, MQTT, TLS, SPI, I <sup>2</sup> C, UART |
| <b>Tools</b>       | Git, MySQL, Buildroot, Matlab, Wireshark, Gitlab CI, SDR, GNU Radio, OpenSCAD, Virtualbox                  |
| <b>Languages</b>   | French (native), English (B2), German (A2)   |
| <b>Other</b>       | 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