



# Fahd Ouassarni

Embedded software development,  
Embedded Linux.

## Workflow

MPLABX for PIC projects. Vivado for FPGA projects.  
Eagle and LTSpice for PCB projects. VIM and GCC for Linux projects.  
Yocto or Buildroot for embedded linux projects.  
Basically a toolchain and a good text editor.

## Job Experience

**Trainee Engineer** / Hyptra Tailleville, France  
April 2019 — September 2019

- Embedded software developpement for 8051.
- PCB design using Altium Designer.
- FPGA synthesis on PicoZed.

**Technical Team Leader** / SERI (ENSICAEN) Caen, France  
September 2018

- A two weeks start-up immersion introduced by ENSICAEN.
- Mission: Wireless Communication on Embedded Linux.
- Product: Space Inspection Rover [Video]

**Special Research Student** / Kumamoto University Kumamoto, Japan  
May 2018 — August 2018

- Laboratory: Human Interface and Cyber Communication Laboratory.
- Research: Multichannel speech segregation using FDBM on a SBC. [cfdbm]

## Education

**Electronic Engineering Master Degree** / ENSICAEN Caen, France  
September 2016 — March 2020

- Speciality: Electronics and applied Physics.
- Major: Signal, regulation for embedded and telecom.

**Higher School Preparatory Classes** / Jean Moulin High School Forbach, France  
September 2014 — May 2016

- They consist of two very intensive years with the main goal of training undergraduate students for enrollment in one of the *grandes écoles*.
- Speciality: Mathematics, Physics and Engineering Science.
- Results: Admission at ENSICAEN via Concours Commun Polytechnique.

**Baccalaureate** / Salman Al Farissi High School Salé, Morocco  
September 2013 — June 2014

- Speciality: Mathematics and Engineering Science.

## Projects

### OpenWRT On WiSoC

June 2019 — Ongoing

Telecom, OpenWRT, Linux, MIPS

- Introduction to OpenWRT lighting the darkness of wifi routers and firewalls.

### Xen on ARM

March 2019 — Ongoing

Xen, Linux, FreeRTOS, ARM

- Introduction to Xen and other different hypervisors in a quest to enhance both my Linux and ARM architecture skills.

### SoC on FPGA / ENSICAEN

December 2018 — February 2019

C, VHDL, Zynq, FPGA

- Introduction to Zynq Processing System alongside VHDL synthesized peripherals.

### Evaluation of TCI6638K2K / THALES AIR SYSTEMS SAS

October 2018 — February 2019

SystemTap, Linux, ARM

- Introduction to embedded linux profiling tools for realtime applications.

### Mobile Robot Race / ENSICAEN

October 2017 — April 2018

LTSpice, Eagle, PCB

- A race of motorized machines guided on a line of electromagnetic field.

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## Life Motto

「学びは生涯の宝」

## Assets

Curious

Motivated

Determined

Teamworker

Autonomous

## Languages

English

Fluent - TOEIC 855

Arabic

Mother tongue

French

Fluent - C1

Japanese

Beginner - N4

## Technical Skills

Architectures

x86, ARM, PIC, STM32, 8051.

Communication

UART, SPI, I2C, CAN, USB.

Programming

Assembly, C, C++, Java, Javascript.

Networking

iptables, distcc, nfs, hostapd.

Frameworks

FreeRTOS, Yocto, CubeMX, NodeJS.

Simulation

MATLAB, Simulink, LTSpice.

Scripting

Shell, Python, Perl, Lua.

Markup

HTML/CSS,  $\LaTeX$ , Markdown.

Tools

Git, SSH, Make, Valgrind.

EDA

Eagle, Altium Designer.

HDL

VHDL, Verilog.

## Interests

Technology

Culture

Travel

Video Games

## Links

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