



# 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.

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 role play 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

- Hosted by: 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 — September 2019

- 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

**Xen on ARM**

March 2019

ARM, LINUX, XEN, HYPERVISORS

- 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

LINUX, C, ARM, DSP

- Introduction to Embedded Linux and Realtime DSP applications.

**cfdbm** / Kumamoto University

June 2018 — August 2018

C, ALSA, ARM, SBC

- Introduction to ALSA for a realtime speech separation application.

**Mobile Robot Race** / ENSICAEN

October 2017 — April 2018

LTSPICE, EAGLE, PCB

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

Date of birth 17/09/1996

ouss.fahd.1996@gmail.com

6 Boulevard Maréchal Juin  
14000 CAEN

+33 6 43 15 50 72

oussfahd.xyz

## Life Motto

「学びは生涯の宝」

## Assets

Curious

Motivated

Determined

Teamworker

Autonomous

## Languages

Arabic

Mother tongue

French

Fluent - C1

English

Fluent - TOEIC 855

Japanese

Beginner - N4

## Technical Skills

**Architectures**

x86, ARM, PIC, 8051.

**Communication**

UART, SPI, I2C, USB, WIFI, BLE, NFC.

**Programming**

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

**Frameworks**

ALSA, SDL, OpenMP, Bootstrap.

**Simulation**

MATLAB, Simulink.

**Scripting**

Shell, Python, Perl, Lua.

**Markup**

HTML, CSS,  $\text{\LaTeX}$ , Markdown.

**Tools**

Git, Makefile, Wireshark.

**HDL**

VHDL, SPICE.

## Interests

Technology

Culture

Travel

Games

## Links

ouassarnifahd

fahd-ouassarni