



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 development 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

Arabic

Mother tongue

French

Fluent - C1

English

Fluent - TOEIC 855

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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