



# Fahd Ouassarni

Embedded software development,  
Embedded Linux.

📅 Date of birth 17/09/1996  
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## 🔧 Projects

### OpenWRT On WiSoC

June 2019 — Ongoing

TELECOM, OPENWRT, LINUX, MIPS

- OpenWRT/LEDE building system hands-on
- iptables and simple rooting usage
- Socks proxy as NAT bypassing solution (WIP)

### Xen on ARM

March 2019 — Ongoing

XEN, LINUX, FREERTOS, ARM

- Xen hypervisor hands-on
- Linux as Dom0 and FreeRTOS as DomU
- Minimum requirements for embedded (WIP)

### SoC on FPGA / ENSICAEN

December 2018 — February 2019

C, VHDL, ZYNQ, SPI, LCD

- Baremetal programming on ARM
- VHDL synthesized SPI peripheral

### Evaluation of TCI6638K2K / THALES AIR SYSTEMS SAS

October 2018 — February 2019

SYSTEMTAP, LINUX, ARM

- Listing of linux profiling and debugging tools
- Profiling linux boot time with bootchart and bootgraph.pl
- Demonstration of SystemTap and other tools

### Project Leader / SERI (ENSICAEN)

September 2018

HOSTAPD, LINUX, RASPBERRYPI

- AP configuration using hostapd
- HTTP media server in C
- Communication protocol implementation

## 👜 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.

### 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 systems and telecommunication.

### 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.

### Baccalaureate / Salman Al Farissi High School Salé, Morocco

September 2013 — June 2014

- Speciality: Mathematics and Engineering Science.

## 💡 Life Motto

「学びは生涯の宝」

Learning is a treasure that follow its owner everywhere

## 📁 Assets

Curious

Motivated

Determined

Teamworker

Autonomous

## 🗨 Languages

English

Fluent - TOEIC 855

Arabic

Mother tongue

French

Fluent - C1

German

Beginner - A1

Japanese

Beginner - N4

## ⚙ Technical Skills

Architectures

x86, ARM, PIC, STM32, 8051, c66x.

Communication

UART, SPI, I2C, CAN, USB.

Programming

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

Networking

iptables, distcc, nfs, hostapd.

Frameworks

FreeRTOS, Yocto, CubeMX.

Scripting

Shell, Python, Perl, Lua.

Markup

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

Tools

Git, SSH, MATLAB, Valgrind.

HDL

VHDL, Verilog.

## 🎮 Interests

Technology

Culture

Travel

Video Games

## 🌐 Links

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