



Fahd Ouassarni

Embedded software development,
Embedded Linux.

📅 Date of birth 17/09/1996
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🔧 Projects

OpenWRT On WiSoC

TELECOM, OPENWRT, LINUX, MIPS

June 2019 — Ongoing

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

Xen on ARM

XEN, LINUX, FREERTOS, ARM

March 2019 — Ongoing

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

SoC on FPGA / ENSICAEN

C, VHDL, ZYNQ, SPI, LCD

December 2018 — February 2019

- Baremetal programming on ARM
- VHDL synthesized SPI peripheral

Evaluation of TCI6638K2K / THALES AIR SYSTEMS SAS

SYSTEMTAP, LINUX, ARM

October 2018 — February 2019

- 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)

HOSTAPD, LINUX, RASPBERRYPI

September 2018

- 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 development 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, \LaTeX , Markdown.

Tools

Git, SSH, MATLAB, Valgrind.

HDL

VHDL, Verilog.

🎮 Interests

Technology

Culture

Travel

Video Games

🌐 Links

🔗 ouassarnifahd

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