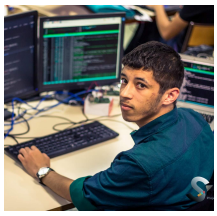

Fahd Ouassarni

Embedded software development,
Embedded Linux.

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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.
Basicaly 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 — Telecom, OpenWRT, Linux, MIPS
June 2019 — Ongoing
- Introduction to OpenWRT lighting the darkness of wifi routers and firewalls.

Xen on ARM — Xen, Linux, FreeRTOS, ARM
March 2019 — Ongoing
- Introduction to Xen and other different hypervisors in a quest to enhance both my Linux and ARM architecture skills.

SoC on FPGA / ENSICAEN — C, VHDL, Zynq, FPGA
December 2018 — February 2019
- Introduction to Zynq Processing System alongside VHDL synthesized peripherals.

Evaluation of TCI6638K2K / THALES AIR SYSTEMS SAS — SystemTap, Linux, ARM
October 2018 — February 2019
- Introduction to embedded linux profiling tools for realtime applications.

Mobile Robot Race / ENSICAEN — LTSpice, Eagle, PCB
October 2017 — April 2018
- A race of motorized machines guided on a line of electromagnetic field.

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, NodeJS.
Simulation
MATLAB, Simulink.
Scripting
Shell, Python, Perl, Lua.
Markup
HTML/CSS, LaTeX, Markdown.
Tools
Git, SSH, Make, Valgrind.
HDL
VHDL.

Interests

Technology
Culture
Travel
Video Games

Links

ouassarnifahd
fahd-ouassarni