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 programing on ARM
- VHDL synthesized SPI peripheral
- LCD interfacing with SPI

Evaluation of TCI6638K2K / THALES AIR SYSTEMS SAS
SYSTEMTAP, LINUX, ARM
October 2018 — February 2019
- Listing of linux profiling and debugging tools
- Demonstration of SystemTap and other tools

Technical Team Leader / SERI (ENSICAEN)
HOSTAPD, LINUX, RASPBERRYPI
September 2018
- AP configuration using hostapd
- HTTP media server in C
- Communication protocol implementation
- Product: Space Inspection Rover [Video]

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 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.

Life Motto

「学びは生涯の宝」

Assets

Curious
Motivated
Determined
Teamworker
Autonomous

Languages

English
Fluent - TOEIC 855

Arabic
Mother tongue

French
Fluent - C1

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, NodeJS.
Scripting
Shell, Python, Perl, Lua.
Markup
HTML/CSS, LaTeX, Markdown.
Tools
Git, SSH, MATLAB, Valgrind.
EDA
Eagle, Altium Designer, Kicad.
HDL
VHDL, Verilog.

Interests

Technology
Culture
Travel
Video Games

Links

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