

YOUBA FERHOUNE

Embedded Systems Engineer

Looking for a final year internship of 6 Months Starting from February 2025

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🌐 youba-ferhoun



PROJECTS & ACHIEVEMENTS

FPGA-based DCC control unit

📅 April 2024

📍 Sorbonne University

- Expertise in implementing mixed hardware/software systems on FPGAs with the Xilinx Microblaze processor and IP integration.

Checker RISC-V RV32I

📅 March 2024

📍 Sorbonne University

- Development of a Python checker for verifying RISC-V architecture in SystemVerilog.

ARM processor VHDL design

📅 September 2023

📍 Sorbonne University

- Modeling of a 4-stage ARM pipeline processor for executing assembler programs.

FPGA-based mini game console

📅 January 2023

📍 Sorbonne University

- Implementation of the brick-breaker and Pong games in VHDL, integrated on an FPGA board.

EXPERIENCES

Arduino workshop organizer and facilitator

📅 February 2021

📍 ISC Scientific Club

- Project management, debugging and mentoring skills.

Co-Founder & head of development department

📅 April 2020

📍 ITdrops

- Skills in entrepreneurship, innovation, project management, leadership and team coordination.

INNOVATION PATENT

📄 Patent N°: 11357

Algerian National Institute of Industrial Property (INAPI)

📅 2020

Title of invention: Device for disinfecting hands and objects, detection of mask wearing with non-contact temperature acquisition and storage.

TECHNICAL SKILLS

🔧 Programming

VHDL

Verilog

SystemVerilog

C/C++

SystemC

Python

MATLAB

Git

Github

🔧 Softwares & tools

Xilinx Vivado

AMD Vitis

GHDL

Intel Quartus

MATLAB

Simulink

Cadence PSpice

STRENGTHS

Autonomous

Persuasive

Curious

LANGUAGES

• French : C2

• English : B2

EDUCATION

Master 2 in Computer Engineering

Sorbonne University

📅 Sept 2023 – Present

- Architecture and design of MIPS and RISC processors.
- Concurrent programming and object modalization: C++.

Bachelor in Electronics, Electrical Engineering, and Automation (EEA)

Sorbonne University

📅 Sept 2021 – June 2023

- Digital systems and embedded processors.
- Microcontroller-based systems.

High School Diploma in Mathematics

Lycée Zennache

📅 June 2019