VICTOR SALAZAR

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https://xavisalazar.github.io/portfolio/

C/C++, Python, VHDL, JavaScript

SOFTWARE DEVELOPER

ABOUT ME

I am passionate about new technologies, always curious with creative solutions. Always achieving to develop a fast and robust system.

I am open-minded with good interpersonal skills, thanks to my multiple intercultural learning with many enriching experiences. My personal abilities will make me a perfect gear for your team.

- English C1 level (CEFR reference)
- French C1 level (CEFR reference)
- Spanish Mother tongue

Paris, France

+33 7 66 44 54 77

Age: 27

Ecuadorian

PROFESSIONAL SKILLS

Programming languages and computer networks

- **C, C++, VHDL, UML, Matlab & Simulink, Python, Labview, OpenCV, TensorFlowLite, TinyML**
- **Operating systems : Linux, Windows, FreeRTOS**
- **OSI model, TCP/IP, UDP, Ethernet, CAN, SSH.**
- **BOOST ASIO, ZeroMQ.**

Electronics, automation and systems engineering

- **Microcontroller development boards 8, 16 et 32 bits,**
- **Object-Oriented Programming.**
- **Raspberry Pi, Jetson Nano**
- **Computer-aide design : eagleCAD, Pspice, Proteus.**
- **Digital signal processing**
- **Systems Engineering Solutions (UML modeling with V model)**
- **Project Management: Agile Methodology and scrum.**

WORK EXPERIENCE

Software Developer at ADENTIS
Paris, France

October 2021 - Present

Responsible for writing C++ modules

- I code asynchronous RESTful services with C++.
- I move python code into C++ modules, and I also do its unit tests.
- Increased request-response latency time with 25.0 ratio by using **BOOST C++** libraries.

- Used tools : **C++, python,** Linux operating system, Docker, git, websockets, HTTP and TCP, Boost Asio Library

Embedded Systems Intern at COCOPARKS
Paris, France

March 2021 - September 2021

Responsible for developing an embedded system image classification

- I developed a prototype with an AI image classification model. I designed the hardware and coded the **C++** units.
- Achieved to build a battery autonomous device with 15 days autonomie (testing without solar panels), by using the different sleep modes in the microcontroller.

- Used Tools: **C++**, **Python**, TensorFlowLite, OpenCV, Git, ESP32, Raspberry Pi, stb_image library

Embedded Systems Intern at LIEBHERR
Toulouse, France

May 2020 - September 2020

HMI development for continuous monitoring and control of a motor test bench

- I designed a Human-Machine Interface with a low latency serial data processing in **C++**.
- Increased testing visual motor tests by 100% by plotting live data in real-time.
- Used Tools : **C++, Python,** Qt Creator, Linux, Git, Bash, Raspberry Pi

EDUCATION

Embedded Systems Master
Paul Sabatier University, Toulouse-France
September 2019 - September 2021

Language exchange program (French)
EF Education First, Nice-France
September 2018 - May 2019

Electrical Engineering Bachelor's Degree
Univ. San Francisco de Quito, Ecuador
August 2013 - May 2018