



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-aided 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 autonomous Embedded System

- I built a prototype board which I designed the hardware PCB and also 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**, Git, 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