



Ayoub ABBANI

Software Engineer - 3 years of experience

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🏠 Brussels , Belgium

🐙 [MyGithub](#)

🌐 [MyLinkedin](#)

📁 [Portfolio](#)

About Me

Programming & Tools : C/C++ 11, Python, Qt5/QML, Flask & REST API , CMake, CLI and Shell Scripting, SSH & VNC, MobaXterm, SQL & MySQL, Git/Bitbucket, QT Editor/Creator, GMock/Gtest, Windows and Linux environment

Main Skills : Software development (Desktop & Embedded & Web) · UI · Software testing · Fast Prototyping · SDLC and V-Model, DSA & Algorithms, OOP, CI/CD Pipeline, Agile/Scrum Project

Domain/industry knowledge : Automotive Propulsion System, AD/ADAS, Radars & Aviation Surveillance

Experience

EUROCONTROL

Brussels, Belgium

Jun. 2023 - Present

Software Engineer (Contractor via Akkodis - 1 yr)

As a C++ Software Developer in Radar and Air Traffic Management Surveillance within EUROCONTROL CNS unit.

I do contribute to the E2E development & maintenance of the SASS-C software, by building algorithms that provides interoperable top-level functionality to civil and military Air Navigation Service Providers (ANSPs), R&D organizations and the ATM industry.

My responsibilities include:

- Implementing new features, often necessitating the refactoring of legacy code.
- Analyzing incoming requirements and drafting technical specifications.
- Writing automated tests and maintaining technical documentation.
- Investigating incidents and delivering prompt feedback.

Tech & Tools: C/C++11, Qt5/ QML, Python, Shell Scripting, SSH, CMake, MySQL, VNC, Git/ Bitbucket, Linux Kernel, CI/CD Jenkins, Mantis.

STELLANTIS

Tangier, Morocco / Île-de-France, France

Jan 2022 - Jun 2023

Software Engineer (Contractor via Expleo - 1 yr 6 mos)

Worked as a C++ & Python Software Developer to improve the XIL development in MHEV and PHEV, CTE2 Projects.

- Develop and maintain software tools in Qt5 and C++11.
- Develop cosutomized software packages for HIL & SIL using ASAM XiL API & Python.
- Write diagnostics Scripts to handle different OBD Testing functionalities (DTCs, Routines, DIDs, Services).
- Performing Software Debugging, Unit, Integration Tests in HIL benches.
- Deploy tools in xHEV & Electrified Powertrain/ECUs Projects.
- Participate in the continuous optimization & code reviews.

SW & HW Tools: Python, C/ C++11, GIT /GITHUB, APIs & Sockets, ControlDesk, VEOS, AutomationDesk dSPACE, INCA & MDA,DiagAlyser.

STELLANTIS

Casablanca, Morocco

Feb . 2021 - Dec. 2021

Software Integration Engineer – (permanent contract - 11 mos)

Worked as a SW Integrator & Vehicle SW Tester in ICE Projects serial life

- Perform SW Integration/upgrade in vehicles ECUs starting from a given reference electronic configuration
- Ensure vehicle is functional after the modernization
- Develop CAPL script to perform CAN/LIN Network/Sensors & Actuators/ADAS Test using diagnostic tools and methods
- Write Automated test using python and execute the test plan in HIL Benchs
- Identify E/E issue and get logs following a defined procedure.
- Provide Root Cause analysis and document issue with description readout, measurements, and log files.

SW & HW Tools: VECTOR CAN/LIN Interface,CANalyzer, C, DiagAlyser, ETAS ECU & BusInterface ,INCA/MDA dSPACE: ControlDesk, HIL Bench (SCALEXIO), Python Scripting, UDS/ CAN Network

ALTEN

FEZ, MA

dec. 2020 - Dec. 2020

COMPETITION / NATIONAL SOFTWARE HACKATHON (Professional Competition - 2 weeks)

- **Won the third prize of the hackathon of ALTEN Morocco Software Awards 5 edition**, Developed in C++, and Innovated an Advanced driver assistance system(ADAS) feature Using COMPUTER VISION & Embedded Linux

Videos of the project: [Prototype/](#) [Final Result](#)

Education

Sultan Moulay Salimane University - FST

BENI MELLAL, MA

Engineer's degree in Mechatronics

Sep. 2018 - January 2021

Mohammed V University in Rabat - FS

RABAT, MA

Bachelor of Science - BS in Physics

Sep. 2015 - January 2018