



Ayoub Talbioui

Embedded Systems Engineer At ALTEN

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EXPERIENCES

OCTOBER 2024 - ongoing : ALTEN MAROC FOR STELANTIS | (BMS Control Manager/ Requirement Engineering)

- Provide technical support for ECU software content across various vehicle models.
- Define and document Battery Management System (BMS) requirements for Plant and Aftersales.
- Contribute to the development and maintenance of comprehensive documentation, including specifications, traceability matrices, and validation plans.
- Collaborate with SW and HW supplier teams to ensure clear communication, feasibility, and alignment with project objectives.
- Ensure adherence to industry standards, regulations, and best practices

JANUARY 2024 - AUGUST : ALTEN MAROC FOR STELANTIS | (ORC Control & Issues Manager / Requirement Engineering)

- Manage and monitor SW/HW issues related to ORC (Airbag Control Module) development.
- Support the creation and maintenance of requirements documentation, including specifications and validation plans.
- Provide technical support for ECU software across various vehicle models.
- Collaborate with SW and HW supplier teams to ensure clarity, feasibility, and alignment with objectives.
- Ensure compliance with industry standards and regulations.
- Assist in researching and developing solutions with suppliers and STLA teams.

MARCH 2023 - SEPTEMBER 2023 : ALTEN MAROC FOR CARIAD | System Test Engineer - Graduation Project (included)

- EAC TURBOCHARGER : System Test Automation via ENNA Framework (ADAPTIVE AUTOSAR)
- Development of Automation Script by Python.
- Review with SW testers.

JULY 2022 - SEPTEMBER 2022 : (ÉLECTRONICS & EMBEDDED SYSTEMS LABORATORY) PRIVATE UNIVERSITY OF FEZ

- ADAS Modeling of the ADAPTIVE CRUISE CONTROL (ACC) based on MPC and PID controller in MATLAB /SIMULINK .
- Simulation of a driving scenario for autonomous car in Unreal Engine.
- Use of SysML language and signal builder block to run the tests.

EDUCATION

2021-2023 : ENGINEERING DEGREE | PRIVATE UNIVERSITY OF FEZ

- Embedded Systems Engineering

2019 - 2020 : VOCATIONAL DEGREE / FACULTY OF SCIENCES DHAR EL MEHREZ- FEZ

- Mechatronics and Embedded Systems

2017 – 2019 : UNIVERSITY DEGREE OF TECHNOLOGY / HIGHER SCHOOL OF TECHNOLOGY OF FEZ

- Industrial Engineering and Maintenance -option Electromechanics

2016 – 2017 : BACCALAUREATE / IBN SINA HIGH SCHOOL

- Physical sciences & Chemistry

KNOWLEDGE & SKILLS

- **ELECTRONIC BOARDS OF EMBEDDED SYSTEMS** : STM32, Raspberry pi 3/4, ALTERA(FPGA) CYCLONE IV
- **METHODS** : AGILE SCRUM, V Cycle MODEL, MODEL BASED DESIGN (MBD), SDLC/SOFTWARE TESTING LIFE CYCLE, SIL, MIL
- **COMMUNICATION PROTOCOLS** : CAN BUS, LIN, UDS DTC, OBD, SPI, I2C, RS-232, RS-485.
- **NORMS AND STANDARDS** : ISO 26262, ISO 21343, DO178-C , DO 254 MISRA C, AUTOSAR, ASPICE
- **PROGRAMMING LANGUAGES** : C, PYTHON, HTML, VHDL, CSS, SQL
- **SOFTWARE TOOLS** : MATLAB/SIMULINK, JIRA, GOOGLE TEST, GIT, BITBUCKET, AZURE DEVOPS, VECTOR CANOE/CANALYZER, POLARION(ALM), COPERNICO, MICROSCHIP STUDIO, PYCHARM, STM CUBE IDE , MODELSIM SE, ANSYS SCADE , DOORS , INCA, RTOS .
- **LANGUAGES** : FRENCH : FLUENT ENGLISH : FLUENT Arabe : NATIVE German : INTERMEDIATE (B2)
- **HOBBIES** : INTERNET BROWSING, SPORT (FOOTBALL), MUSIC, TRAVELING