MOHAMED EL MOUSLIH

Embedded systems Engineer

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Summary

Passionate engineer with expertise in control systems and embedded software, focused on automotive . Strong problem-solving and communication skills.

Education

Master's degree in Industrial Computer Control, Signals and Systems.
Faculty of science | Cadi Ayyad University-Marrakech
sept., 2018 - juin, 2020

Licence degree in Science and Technology, with a focus on Computer Science, Electronics, Electrotechnics, and Automation.
Faculty of science & technology | Cadi Ayyad University-Marrakech
sept., 2017 - juin, 2018

High school diploma in Experimental Sciences, specialized in Physics and Chemistry.
Abi Abbes Sebti High school - Marrakech
sept., 2013 - juil., 2014

Technical Skills

Matlab, Simulink, C, Python, JAVA, CAN-LIN-Flexray, ADAS,BMS,AUTOSAR, ISO26262, Modeling, Control theory

Soft Skills

Collaboration, Problem-solving, Communication, Time management

Languages

English - B2, French - B2

Work Experience

ALTEN Delivery Center janv., 2024 - Present

Matlab-Simulink Developper for Stellantis (Opel Automobile)
Developed models and signal processing scripts to analyze NVH (Noise, Vibration, and Harshness) data and support system validation

- Analysis of customer requirements and evaluation of their feasibility.
- Modeling NVH systems and components using Simulink and MATLAB scripts.
- Implementing signal processing algorithms for vibration and acoustic analysis (FFT, filtering, order tracking, etc.).
- Unit testing to detect anomalies and debugging to resolve them.
- Compiling and generating executables for the Guest User Interface application.
- Delivery of the application and simulink model via GitHub.
- Addressed post-delivery bugs based on customer feedback.

ALTEN Delivery Center juin, 2022 - janv., 2024

Model-Based Design development for PSA Group
Developed high-abstraction-level AUTOSAR software components (ASWCs) using a Model-Based Design (MBD) approach, and I owned the Interior Lighting function. My tasks included::

- Proofreading customer requirements to assess feasibility.
- Implementing requirements using MATLAB/Simulink and Stateflow following the Model-Based Design (MBD) approach.
- Ensuring high-quality deliverables through functional verification using Model-in-the-Loop (MIL), Software-in-the-Loop (SIL), and Back-to-Back testing.
- Generating code for AUTOSAR software components from Simulink/Stateflow models using Embedded Coder.
- Ensuring compliance of deliverables with MISRA C, MAB guidelines, and ISO 26262 standards.
- Analyzing software defects reported by validation teams using CANalyzer and MATLAB/Simulink.
- Reviewing and approving deliverables for quality assurance using Git/GitHub.