

Elabbas Salah

SOFTWARE ENGINEER

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Summary

- Software Engineer who has exposure to dealing with a strong technical/coding background in Different fields of software especially in Adaptive/Classic AUTOSAR and Basic software, also who has experience with different OEMs, e.g: VW and Daimler.

Skills

Configuration tools(Vector)	Davinci Configurator, Davinci Developer, Davinci Scripting, Davinci Cmd, DaVinci Adaptive Generator.
Standards	Classic AUTOSAR, Adaptive AUTOSAR, Unified Diagnostic Services (ISO 14229).
Software Tools	Vector CANoe, Vector Cast, Eclipse, Gdb, Autosar XML Editor, VSC, Vector VTT, Enterprises Architect, Doxygen.
Software Management	CoreALM "TeamForge", Nexus, Git, Gitlab, Git Extension, GitHub, Conan.
Software HighEnd Tools	Yocto, Posix, Qemu, QT5
Programming	C/C++, C++(11/14), OOP, Python, Bash, Batch, CAPEL, UML, Groovy, Matlab, CMake, Make.
Languages	English, Arabic, Italian.

Experience

Adaptive Autosar | Vector | Technology and Strategy

Stuttgart, Germany

SENIOR SOFTWARE ENGINEER

Apr. 2023 - Present

- Responsible for Integrating, release-testing, and deployment of Adaptive MICROSAR into customer projects.
- Consulting and supporting customers in topics concerning architecture, implementation, and integration.
- Collaborating in mixed project teams staffed with peers from Vector and customers.
- Staying on the cutting edge of technology.
- Staying in close collaboration with the Vector development teams to achieve the best possible solutions for customers.
- Sharing knowledge and know-how with customers and colleagues in pieces of training and workshops worldwide.
- Automating the configuration, Testing, and merging different packages using Vector tools or Python/Bash scripts.
- Working in an Agile environment.

Classic Autosar | V-Core | Valeo

Cairo, Egypt

STANDARD SOFTWARE ENGINEER

Oct. 2021 - Apr. 2023

- Responsible for analyzing and implementing software requirements.
- Integrating, Configuring and testing of AUTOSAR stacks (Diagnostic, Communication, Memory, Mode management, Network management).
- Good knowledge in configuration and integration and testing of Autosar Ethernet Stack.
- Understanding of UDS protocol [ISO 14229-1].
- Apply standard software guidelines at components Implementation including MISRA-C rules and Valeo naming rules.
- Good knowledge of AUTOSAR E2E Specially VW E2E.
- Automating the configuration, Testing, and merging different packages using Vector tools or Python scripts.
- A-SPICE L2 deployment.
- Understanding of Agile workflow.

Adaptive Autosar | Geeds | Valeo

Cairo, Egypt

INTERN SOFTWARE ENGINEER

Nov. 2020 - Aug. 2021

- Good knowledge of Adaptive Autosar Workflow (development, integrating, Deployment).
- Understanding of Service oriented Architecture Concepts.
- Good Knowledge of service UCM sub-module, Centralized service UCM-Master and Fundamental Stack(ara::Com, ara::EXEC).
- Good knowledge of Yocto Project, Qemu and Posix.
- Good knowledge of Linux commands and OS basic concepts.
- Good knowledge of SOME/IP.

Electronics | MasterTechCo.

Alexandria , Egypt

INTERN ELECTRONICS ENGINEER

JUL. 2020 - Sep. 2020

- Restructured some machine-like CNC, shellers, servers, Cico Centrals, Cico cell phones, and machine drivers
- Trained on how to design relevant circuits for ECUs.
- Implemented power supplies for small and critical control circuits.

Automation | Sprints | Mentorship by Vodafone UK

Cairo , Egypt

INTERN DEVOPS ENGINEER

JUL. 2020 - AUG. 2020

- Trained on new technology to CI/CD.
- Used tools like Docker ,Git ,Jenkins and bash scripts.
- Implemented a CI/CD cycle for features on the develop branch in Sprints School Platform.

Professional Trainings

PES8| Vector

Stuttgart, Germany

SENIOR SOFTWARE ENGINEER

Apr. 2023 - PRESENT

- Adaptive AUTOSAR Overview and Objective.
- Adaptive AUTOSAR Adaptive application.
- Adaptive AUTOSAR Methodology.
- Adaptive AUTOSAR ARA::EXEC.
- Adaptive AUTOSAR ARA::COM.
- Adaptive AUTOSAR ARA::PER.
- Adaptive AUTOSAR Security.
- Adaptive AUTOSAR ARA::DIAG.

V-Core | Valeo

Cairo, Egypt

SOFTWARE ENGINEER

Oct. 2021 - Apr.2023

- Classic AUTOSAR Communication stack.
- Classic AUTOSAR Diagnostics stack.
- Classic AUTOSAR Ethernet Stack.
- Classic AUTOSAR Application Software (RTE).
- Requirement Management a long software Life cycle
- Introduction to Adaptive Autosar

Middle-ware VW Projects

Cairo, Egypt

AUTOMOTIVE PROJECT

Mar.2022, Apr.2023

- Analyzed, Developed, and implemented a feature called KnockOut which is responsible for reducing power consumption and shutdown of the ECU and BUS in case malfunction happened in run-time for VW Specific Requirements
- Analyzed, Developed, and implemented a Software component for handling generic requirements related to Diagnostics specific to VW.
- Analyzed, Developed, and implemented a Software component for handling specific requirements related to E2E Profile 2 specific to VW.
- Applied automation scripts for all Types of Test cases: unit-test, integration test, and validation test, Implementing Python script for generation, it also generated generic Test cases to the Basic feature with some input from the customers.
- Applied the concept of Building Units to automate the integration of features in any project for VW.
- Applied all V-Cycle for the whole 3 previous projects from SWE01 to SWE06 including the Requirements analysis, Architecture, implementation, documentation, Unit-test, integration test, and validation test.
- Achieved Aspice CL 3 for the knockout and E2E.

Building Unit(BU/CI/CD)

Cairo, Egypt

ARCHITECTURE PROJECT

Nov.2022, Dec.2023

- I Invented this solution to automate the integration method of the whole project from development and Testing, and then Deployment to Valeo Portal.
- Developed and implemented this solution based on vector tools and Python scripts.
- This solution reduces the time of deployment, increases the re-usability, Maintainability, and Checks the validity of features in any project.
- it facilitates for the customer to get the needed feature and track the requested project in every phase.
- Implemented over 2000+ Lines of Python and Groovy to cover all corner cases and make my solution generic for each project.
- Implemented various Steps to check the Quality of the Delivery and that it's following the defined process.

Middle-ware Daimler Projects

Cairo, Egypt

AUTOMOTIVE PROJECT

Oct.2021, Present

- Integrated and Testing the Delivered package from vector to Daimler projects in Valeo.
- Analysed and Implemented some handling related to the communication stack, diagnostics stack, Memory stack, RTE layers, and the Startup sequence for Daimler requirements.
- Applied all V-Cycle from SWE01 to SWE06 including the Requirements analysis, Architecture, implementation, documentation, Unit-test, integration test, and validation test.
- Implemented Tool using Python Script for Parsing the useful information from Ecu extract and Candela files, then generating the testing file imported in the testing environment.
- Automate all Test cases.

Update And Configuration Management in Adaptive Autosar Platform

Cairo, Egypt

GRADUATION PROJECT MENTORSHIP BY VALEO

Dec.2021, JUL.2021

- Implemented a system that ensures robust, fail-safe, and secure OTA updates.
- Developed UCM, UCM MASTER, Driver Application, OTA Client, OTA Server, and OTA Website.
- Developed Update And Configuration Management Subordinate Release 19/11 to meet software specifications of Autosar organization Release 20/11.
- Implemented Update And Configuration Management Master as Centralized service over SOME/IP that orchestrates the multiple UCMs in different nodes in a network of vehicles and control update campaign flow to All UCMs Subordinate.
- Implemented OTA Client as an Application in communication with the back-end to fetch vehicle packages that needed to update and Polling of an update is available.
- Implemented Driver Application to request a transfer, process, or activation permission from the vehicle driver and Notify the vehicle driver of safety and security measures he has to apply to the vehicle in order to proceed to the next step in the update campaign.
- Built Image and SDK for Raspberry Pi 3 to Support QT5, SSH, Wifi, and Ethernet that are not compatible with Release 19/11.

Automation Projects

Cairo, Egypt

CI/CD PROJECT

MAY.2021, AUG.2021

- Implemented Docker and Jenkins files to deploy a simple web Django app on the local host machine is a part of the sprints training

Education

Alexandria University of Engineering

Alexandria ,Egypt

B.E. IN ELECTRONICS AND COMMUNICATIONS

Sep. 2016 - Aug. 2021

- Got a Bachelor of electronics and communications engineering program with Good grade