

Mahmoud ZALEGH
358 Wake Green Road, B130BL, Birmingham
mzalegh@yahoo.fr
07557540591

System Requirements Engineer

Objective:

I am looking for new challenges in, but not limited to, in:

1-System/requirements engineering: work closely with customers to understand their expectations, Requirements managements/capturing, Requirements review, Requirements flow down to internal and external suppliers, Lead testing activities to check that the software meets stakeholders' expectations, and track bugs.

2-Lead software design: Primary technical point of contact for internal and external customers, Meet the customer to understand his requirements, Task and resource planning, Work package identification, Work flow and priorities, Provide technical guidance to the other team members, Lead the activity of reviewing the software design and its alignment with the customer's requirements, Make sure the customer's requirements are tested, results are documented and met before the software delivery to the customer, Support the troubleshooting activities, Work closely with the Project Manager to ensure successful delivery of the project.

Employment history:

Jaguar Land Rover, Gaydon, UK:

Requirements system Engineer/Feature Owner at Chassis Control and Stability department for D7a, D7u, and D8 projects: October 2014-Present

- Liaise with both internal and external stakeholders as required ensuring that their requirements are adequately supported and that their needs are fully considered and incorporated where appropriate and agreed.
- Support in the planning, estimating and resourcing of requirements tasks.
- Use case development to aid in system definition.
- System and lower level requirements elicitation from the customer and high level stakeholder requirements.
- Ensure that the technical solution fulfils functional and safety requirements
- Lead the Subsystem Requirement Specification reviews with internal subject matter experts.
- Manage the Subsystem Requirement Specification into appropriate tools (DOORS) and traceability between stakeholder requirements, systems requirements, and sub-system requirements.
- Change control and issues tracking (e.g. etracker).
- Analyze and document change requests
- Participate in system change control boards (CCB)s
- Requirements flow down to internal and external Suppliers.
- Lead requirements review with the suppliers to come to an agreed design.
- Maintain traceability within the DOORS database from requirements through design to acceptance.
- Lead and support engineering review of test strategies by defining acceptance criteria for the requirements, and test reports for multiple projects.
- Tests and validation planning, and follow up.
- Support vehicle fleet, and HiL rig testing with troubleshooting and software updates.

- Review evidence supplied during the verification activities to ensure that systems design meet functional requirements.
- Track bugs and technical problems and work with the supplier to ensure timely resolution.
- Contribute to the overall team development and growth through strategic inputs.

VALEO Engine & Electrical Systems (VEES), Cergy, France:

**System engineer in Powertrain department for EBx, ECx ECU engines project
September 2009 – October 2014**

- Primary technical point of contact for internal and external customers.
- Work package identification.
- Work flow and priorities.
- Manage the requirements engineering process throughout the development life cycle: capturing, eliciting, documenting, analysing and harmonizing functional and non-functional software requirements.
- Design control strategies, or by updating existent strategies, based on requirements, and using Matlab/Simulink.
- Adaptation and correction of existing control strategies.
- Develop and execute functional validation testing.
- Participate in software debug and analysis.
- Report and track defects using defect management systems (Sticker).
- Provide expertise for investigations and problem solving activities.
- Support system testing and validation.
- Visits to site to assist in testing and commissioning
- Support Calibration team in OBD and diagnostic activity
- Calibration of servo controls of VVT actuator

**PSA PEUGEOT-CITROËN, technical center of la Garenne-colombes, France :
Consultant engineer in Hybrid project**

January 2009 – July 2009

- Simulation and validation of different models of control systems.
- Analysis and correction of functional validation testing.
- Realization of the validation tests on a prototype at the technical center of La Ferte Vidame, and analysis of results.
- Writing the report of the technical facts encountered
- Monitoring and validation of corrections
- Support customer's engine and vehicle testing.

PSA PEUGEOT-CITROËN, la Garenne-colombes technical center, France: Consultant engineer, Functional validation service, powertrain department

July 2008 – January 2009

- Functional specifications analysis prior to the functional validation.
- Test and validation strategy definition associated to customer's requirements

- Realization of test validation on HIL rig and results analysis.
- Writing the report of technical facts met, and sends of anomalies to the supplier.
- Monitoring and validation of corrections
- Interface between supplier and customer.

Internships:

Technical center of Renault, Lardy, France

Development of algorithm for detection of volatility of fuel

March- July 2008

- Analyse of tests done with different types of fuels
- Development of engine control strategy for detecting fuel volatility
- Drafting of calibration procedure.
- Establishment, and scheduling of test procedures to verify the robustness of the strategy.
- Project progress meeting participation.

PLASTICOMNIUM Environment, LANGRES (52), France

May-September 2008

- Analysis and improvement of programs robot's (detection of problems, search for the causes and proposal of solutions).
- Programming and putting on a machine manufacturing of plastic parts.
- Presentation of reports of the functioning of the different production units.

Education:

- 2007: Master degree in Signal, Electronic, Automatic, university of Burgundy, France.

Skills:

- **Computer & programming languages**: MATLAB/SIMULINK/Stateflow-StateMachines\AGS, understanding of C language, and LADDER
- **Calibration/Data Acquisition tools**: INCA/MDA, Winades,MM6, Datalyzer
- **Virtual rig**: Hardware in the loop test bench : ETAS/LABCAR, dSpace/ControlDesk,
- **CAN/Flexary tools**: CanAlyzer, DiagAlyezer, DiagOnall
- **Diagnostic Tools**: Scandiag, Scantool
- **Requirement's management database tool**: DOORS
- **International standard for functional safety**: ISO26262 awareness/compliance.

Languages:

English: Professional working proficiency.

Arabic: bilingual.

French: Native.

Activities:

- **Sports** : member of football team of Valeo company