Issam DJEMILI

Location: Brussels, Belgium

Core skills

- Product development processes
- Toolchain deployment
- Quality assurance
- Product development
- Project management
- People management
- Change management
- Outsourcing
- System engineering
- Model-based design
- Functional safety
- Cybersecurity
- Embedded System
- On-board diagnostic
- Fuel system
- Depollution System (SCR)
- ADAS System
- Fuel cell
- Electric battery
- Hydrogen storage system
- Automatic Gearbox
- POLARION/DOORS
- JIRA/RTC
- MATLBA/SIMLINK
- Medini Analyze
- French (Bilingual)
- English (Fluent)

Career Summary

Sep 2021 – Present

Senior Consultant
Engineering Methods & Tools Expert.
Polarion technical partner (XWARE-SIMENES)
XWARE Engineering & technology
Brussels, Belgium

Supporting different customers to define, optimize & deploy engineering processes, methods & tools to meet industries standards & best practices:

- Development of engineering processes & methods (Product development, System engineering, functional safety & cybersecurity, Software/HW engineering)
- Customization, deployment & integration of engineering toolchain (POLARION, DOORS, codebeamer, JIRA, RTC, SIMULNK, EA, Medini Analyze ….);

Key Customers Project (Polarion customization & deployment)

- OPmobility Software house → leading the development & deployment of Polarion as a pillar of integrated toolchain to develop embedded software for automotive & railway application: polarion customization, integration with other tools (Simulink, Jira, vTESTStudio & VectorCast), global deployment & training. You can consult the simens user day video presentation: [(5) Customer Testimonial: Issam Djemili & Christy Robendrakumar, OPMobility - YouTube]

- OPmobility Lighting BU: Customization & deployment of polarion to develop automotive lighting product (RFQ, System/HW engineering, HW, functional safety, cyber security, …)

- TREMEC – customization & deployment of Polarion template to develop automatic hybrid gearbox (system, HW & software) including a development of integrated FMEA analysis tool.

- AGC glass (Wideye) – deployment polarion for requirements & test specification management to develop Lidar solution integrated behind the windshield

- Thales group: development of a migration tool to enable polarion project migration between different servers while keeping project history.

May 2018 – August 2021

Head of Department - Functional Safety Engineering & Quality Assurance (Methods & Tools)
Plastic Omnium – Clean energy System Division
Brussels, Belgium

Leading & managing the Functional Safety Engineering & Quality Assurance department (Methods and Tools). The mission of the team is to support the R&D organization developing innovative products that meet the functional safety and the automotive quality standards (ISO26262, ASPICE, IATF, etc.). R&D programs cover Depollution system, Fuel system, Hydrogen storage system, Fuel cell and Electrical battery.

Key responsibilities (Functional Safety)

- Cross countries people management.
- Financial planning & budget management.
- Outsourcing of engineering activities.
- Establishment of the functional safety organization for Plastic Omnium.
- Alignment of corporate business processes with ISO 26262 requirements.
- Coach and manage the functional safety managers involved in the R&D programs.
- Cross division knowledge management by providing Functional safety training.
- Conduct the Functional Safety Audits, Confirmation Reviews and Assessment for R&D programs.

Key responsibilities (Methods and Tools)

- Accountable for the definition and maintenance of the product development processes.
- Establishment & roll out of an integrated toolchain to support R&D programs (DOORS NG, PREEvision, Medini Analyze, RTC, Stages, etc.);
- Accountable for quality assurance assessment (internal & external);
- Owner of the product development processes & tools.
- Accountable for the KPI monthly reporting (Global R&D Mechatronics).

Apr 2015 – May 2018

On-Board Diagnostic Engineering leader
Senior expert – On-Board diagnostic legislation
Plastic Omnium
Brussels, Belgium

In Highly regulated market (CARB, CHINA 6, etc.), successfully lead the development of On-board diagnostics functions (legislation interpretation, design, calibration & validation) for PO products portfolios (Depollution system, Fuel system).

Key responsibilities:

- Accountable of the development of On-Board Diagnostic Functions.
- Worldwide OBD legislation interpretations and requirements definition.
- Engineering activities & OBD legislation study outsourcing.
- Establish OBD function design & calibration process to ensure robustness and compliance with OBD legislations (EPA, CARB, CHINA 6);
- Speaker on SAE/CTI conferences to share, within the automotive community, Plastic Omnium visions and experiences.
- Technical expert mandated to the Automotive Standardization Council (GT ExVe et Remote Diagnostic, Neutral server task force, …);
- Support on the discussion with OEMs and legislative authorities regarding OBD legislations.

Oct 2012 – Apr 2015 **Engineering Process Architect**
Embedded Software Architect
Dana Holding Corporation
Bruges, Belgium

Successfully established a model-based Embedded SW Development Process. The said process is defined to improve efficiently and enable variability handling.

Key responsibilities:

- Establish an Embedded Software Engineering Process (a model-based design approach);
- Establish Verification & Validation process to meet quality and safety standards.
- Deploy an integrated toolchain to support the defined processes (Enterprise Architect, MATLAB/Simulink, Internal tools, …).
- Develop in-house Simulink toolboxes (Unit testing, ….).
- Introduce Hardware-In-the Loop (HIL) testing environment.
- Define Safety-critical Embedded SW Architecture for off-Highway automatic gearbox application.

Oct 2009 – Sep 2012 **R&D Project Manager/ Research Engineer**
EU funded R&D project - SCODECE
Lille, France – Brighton, UK

Successfully managed an EU funded R&D project. The goal of the project is the development of a new technology that could results in clean, economic and safe diesel engines by operating with low temperature combustion.

Key responsibilities:

- Manage the project and report to sponsors.
- In charge of the communication around the project (scientific conferences & public events);
- Design control & diagnostic functions to ensure optimal operation of a biodiesel engine;
- Deploy a co-simulation platform (Simulink/AMESIM);
- Fast prototyping using dSPACE MicroAutoBox & CATERPILLAR engine test bench.

Academic Background

PhD — **Industrial Informatics**
Université des Sciences et Technologies de Lille
Lille, France

Master's degree — **Control & Diagnostics**
École nationale supérieure d'électricité et de mécanique de Nancy,
Nancy, France