

# Mohammad Tariq Javaid

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## Summary

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I have worked in the automotive industry for more than 13 years. My areas of expertise include team development and management, technical Consultancy, business development, electrical product development & integration. I have gained specialist Knowledge by working for one of the most innovative companies in vehicle network design & ECU test system.

I manage the product line of network design, simulation & testing as well as supervising customer support and training. There has been steady growth in the business area of simulation and testing. Through my current role I have gained experience of working with all the OEMs(BMW, Daimler, VW, Ford, JLR, Aston Martin, Bentley etc), Tier1 & Tier2 companies (Delphi, Lear, Denso, Bosch, Continental etc) within the automotive and aerospace industry in the UK. I always enjoy working on projects which provide me with new challenges and I always rise to the challenges by providing innovative and cost-effective solutions. I have excellent interpersonal and business communication skills which have been demonstrated by the excellent growth in my area of business. I often work on several projects at a time, meeting the strict deadlines under pressure which requires strong leadership and team building skills to succeed.

## Experience

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### Head of Simulation and Testing product line

January 2008 to Current

#### Vector GB

In my current job I am responsible for three different areas

#### 1.Product Line Management & Business Development

- Managing the product line for network design, Simulation and testing with revenue of Approx. 3M. Providing technical consultancy to customers in automotive and aerospace industry in vehicle network design & Simulation (CAN, LIN, FlexRay, IP, J1939, CANopen etc.)
- Providing consultancy for validation and verification of V2G(Vehicle to Grid) , V2X ( Vehicle to Vehicle Communication ) , ADAS and SecOC ( Secure On Broad Communication)
- Providing technical consultancy in vehicle Diagnostic (Design, implementation and testing)
- Managing the project work with in network design, analysis, testing and vehicle diagnostic.
- Product launches for UK market and presenting in the conferences and technology days.

#### 2.Managing customer technical support team:

- Managing the customer technical support for UK and Ireland customers and supervising support team

#### 3.Managing customer training team:

- Third area under my responsibility is managing the training department and running workshops within network design, simulation, analysis, testing and vehicle diagnostics.
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### Electronic System Integration Engineer

January 2008 to December 2008

#### Aston Martin Lagonda Ltd

- Electronic Integration of all the body electronic ECUs on Aston Martin Rapide.
- Responsible for integrating Central Electronic ECU, Door ECU, Seat ECU, HVAC ECU and all the new ECUs (Rear HVAC, Roof Blind, Seat Heating and Cooling Control) on the new four door vehicle.
- Preparing the simulation of the Roof Blind System in visual basic to present it to Technical Director for approval.
- Preparing the functional & diagnostic specification for all the new ECUs on the car
- Validation for all the ECUs with the simulation in CANoe/CANalyzer in the phase I and on the Lab Car in the phase II and finally on the vehicle in phase III.
- Active role in design, development and validation of the electrical architecture of new car.

### Speed Variable Steering System Engineer

October 2006 to December 2007

### **Valley Forge (JLR)**

- Producing the design specifications for the ECU Defining the control software strategy and defining the interfaces
- Developing the system in Simulink and generating the codes
- Producing the software requirements to develop the application software & creating software support plan.
- Creating the FMEA and DVP, carrying out the testing according to 'Design Verification Plan' on the vehicle and HILST

### **Terrain Response System/JDO System Engineer**

September 2005 to December 2007

#### **Valley Forge (JLR)**

System that changes the driving characteristics of the vehicle by optimising the Engine, Gear box, brakes and Air suspension on different terrains.

- Preparing the software support plans for all the vehicle programmes to meet the programme gateways.
- Designing the functional specifications and defining the interfaces with the Low Level Software
- Producing the software requirements to develop the application software
- Modelling the system in Simulink for testing and Validation
- Creating the FMEA and DVP, carrying out the testing according to 'Design Verification Plan' on the vehicle and the HILST environment.
- Defining the diagnostics Requirements and carrying out diagnostics of the system with the ASL tool
- Negotiating and liaising with the supplier for the delivery of the complete feature.

### **Night Design Engineer**

March 2005 to August 2005

#### **Valley Forge (JLR)**

- Defining the Cockpit Illumination behaviour during day time and at night
- Deciding the colour of LEDs and then controlling the intensities of the light level, controlling the backlighting of Instrument Pack and HLDF, Creating the FMEA and DVP for the system and executing the validation plan within the program gateways.

## **Education**

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**BEng Degree: Electronic & Communication Engineering, 2004**

**University of Birmingham**

#### **Final year projects**

1. Vehicle Diagnostics: worked with Jaguar cars and built a multi-node module communication network system that communicates with as many as 22 CAN modules at a time. During the project, the system I built communicated with Tyre Pressure Monitoring system through CAN. As well as setting up the standard communication I wrote the script to carry out diagnostics on the module with ASL tool, which involved identifying the software and hardware part numbers and Diagnostic trouble codes.

2. Built a core of a microprocessor using VHDL language.

#### **Second year projects**

1. Built Synchronous finite state machine.
2. Built Asynchronous finite state machine.
3. Built a robot that follows the white track.

#### **First year project**

1. Built a traffic signal system using PIC programming.

**HND : 2001**

**City College Birmingham**

HND 1st year (electrical and electronics)

**HSSC (A 'Level) : 1999**

**Chinar Army Public School and College**

Mathematics, Physics, Chemistry

## **Interests**

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Sports: Cricket, Football, Squash, Member of Aston Unity cricket Club,

Learning:

I take keen interest in current affairs. I attend workshops, lectures, courses and conferences which enrich my knowledge, interest and work.

## **References**

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Upon request