**Adeel Chaudhry**

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## Personal Profile

Highly competent Senior Project Engineer with 6 years experience in the managing and delivering systems within Automotive Industry. Have a full life cycle experience on vehicle architecture with a heavy emphasis on testing and integration of Body ECU’s. Now seeking next challenging and rewarding opportunity to demonstrate substantial abilities and make an effective contribution in a successful focused team.

# Skills

Hardware:

* Analogue circuits for Timers and frequency generators for valve drivers
* Analogue and Digital PCB design using Orcad, Pspice, and Workbench

Software:

* + Competent in Vector products CANoe/CANaylser/CANgraph/CANape
  + Diagnostics design and development using CANdela
  + Bug tracking software (MANTIS)
  + PicoScope
* SAP – BOM/Logistics/Requisitions
* DOORS – Requirement Capture
* Programming in Microsoft VB and Microsoft C
* CAPL coding for CANoe simulations
* Test Automated Scripts
* MS office such as Excel, Word, Projects and PowerPoint

Technical:

* + Preparation of quotations reports and design verifications
  + Development of maintenance and operating standards
  + Working under the quality assurance ISO26262/ISO9001
  + DFMEAs analysis
* EMC testing support for the Automotive sector
* Investigating in electrical and electronic failures

**Education/Qualifications:**

* **1996-2000** **De Montfort University Leicester**

*BEng (Hons) Electronic engineering (sandwich),* degree class 2:1.

* **1994-1996 Arnold and Carlton college**

BTEC National Diploma in Electronic/Electrical Engineering with Computer Engineering.

**Work Experience:**

**McLaren Automotive Ltd** June 2012 – Present

### *Senior Project Engineer (Permanent) - Surrey*

* Design and development of technical specifications of Body Electronic Control Units.
* Develop future electrical architectures with an understanding of CAN and LIN.
* Liaise with current and new Automotive suppliers with new requirements.
* Work within and look to reduce budgets for current and future projects.
* Control and maintain the infrastructure of the BOM for current projects.
* Analyse and decompose a complicated system and design a strategy for testing.
* Write test specifications to support development activities.
* Development Validation Plan for XP/VP/PP phases for the Electrical Function Group.
* Deliver software for business release (Manufacturing).
* Bug tracking and verifying supplier software on every delivery.
* Support Production build with End-of-Line procedures and address any electrical software or harness concerns.
* Support After sales and service with the latest parts for all Body ECU’s.
* Find solutions in capturing and analysing data.
* HMI design for the Instrument Cluster.
* Evaluate new technologies.
* Train and mentor other team members.

**McLaren Automotive Ltd** October 2008 – June 2012

**Trimble Ltd (Consultants)**

*Software Test Integration Engineer (Contractor) – Surrey*

* Testing and validating complete systems for several ECU’s.
* Using CANoe and CANalyzer for validating messages and data within the hardware system.
* Write test suites for systems to ensure 100% requirement coverage.
* Validated ECU’s as black box systems or on Lab car and vehicles.
* Bug tracking and verifying supplier software on every delivery.
* Diagnostic validation using Softing tool.
* Support development activities on test site i.e. MIRA/Idiada/Millbrook.
* Maintain test lab cars for all variants.

**Visteon Ltd** October 2006 – October 2008

**Accutest Ltd (Consultants)**

*Lead Validation Engineer (Contractor) - Essex*

* Validation Lead for the Instrument Cluster for all Jaguar Projects (X150/X250/X400).
* Managed an offshore (India) test team to carry out Focus and Full validation cycle.
* CANoe and CANalyzer for analysing messages and data within the Instrument Cluster.
* Wrote test plans for system to ensure 100% requirement coverage.
* Wrote programs for individual applications using CAPL and C.
* Provided test reports and execute for focus or full validation.
* Presented validation test reports to suppliers and Management Team.
* DOORS to capture requirements.

**Add2 Ltd** January 2004 – October 2006

### *Test and Development Engineer - Staffordshire*

* Used Mathworks to create and simulate Hardware in the loop and test (HILST) models.
* Used Add2 VisualConnX for validation on the Infotainment system and monitoring LIN communication in Jaguar cars.
* Designed and developed configurable I/O and signal conditioning system for customer applications.
* Used Matlab Simulink with our signal conditioning systems (MicroGen) to test the diagnostic and engine management system in the jaguar Car.

**Videojet Ltd**  September 2001 - October 2004

*Research and Development Engineer - Northampton*

* Designed and developed a digital printing unit using a Visual Basic to interface between the user and the hardware.
* Electrical test bench using Orcad to design analogue timers and drivers to control valves and pumps for the use of prototypes and production.
* Tested the latest input/output boards for a continuous ink jet printer and constructed a test report for verification.
* Recommended and replaced obsolete components to reach a certain specification for IS9000 or TUV approval.
* EMC testing using a Spectra analyzer on a digital printer before releasing to customers
* Analyse Firmware used for the Altera processor in a Digital printer and create an artificial environment to verify the data.
* Experimental research to analyse the behaviour of electronic or mechanical designs inside a CIJ under certain working conditions and temperatures.
* Investigated flow rates and pressure starvation and implemented pumps and valves Research into mechanical design for fluid (INKS) circulation around CIJ printers. .
* Constructed design and risk assessments reports.

**Willett Ltd** June 2000 - September 2001

*Service Engineer - Northampton*

* Maintained and commissioned of all the Willett systems on customer location throughout the UK and Europe.
* System support for a CIJ printer that require additional equipment or software such as a PLC or networking operating systems.
* Fault finding and comprehension of the electronic circuits for the 400 series CIJ
* Wrote ladder programs for Siemens PLC S7-200 and was used to control photocells and proximity control sensors and pneumatics on a system.
* Customer support and assistance on and off site.
* Created maintenance reports and procedures on individual customer basis.