

Hashem Abdul-Rahem Abdul-Ameer Attrah



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Brief description of your current position and the department you work in.

Automotive Engineer with excellent educational qualifications and substantial practical experience in automotive research and development. Graduated in 1999 with a BEng in Automotive Engineering from the University of Hertfordshire, Hatfield, England and obtained a Master Degree in Automotive Engineering in 2007 from the same university. Awarded Ford Motor Company Powertrain Engineering Excellence award –Third Quarter 2008, for the deletion of high pressure pipe dumpers on lynx engine and improved fuel system design.

Extensive work experience including: - Ten years in engine research and development at Ford Motor Company, three years in engine testing and performance assessment with Prodrive Tickford (UK). Ten year hands on experience in engine maintenance of Mercedes-Benz heavy Trucks, Fiat Trucks, VW-Audi, Renault, Peugeot, Toyota, Lada, Fiat, Ford and Vauxhall cars and Boss Forklift Trucks.

Have substantial experience in projects and teams management. These include teams of several members of diverse educational background and technical knowledge. Experienced in project planning, motivating team members organize the work/team and lead the project to successful conclusion. In addition, can work as a team member or on own initiative.

Have extensive experience in using computers for data acquisition, processing, manipulation and analysis.

Member of the IRAQI ENGINEERS UNION as Licensed Engineer, Mechanical, Automotive

EXPERIENCE

April 2022 – 30 June. 2022 **Automotive Tutor** Scarborough TEC College
Filey road, Scarborough, YO11 3AZ, UK

Sep. 2019 – 20 Dec. 2019 **Engineering Lecturer** BTEC level 3 & 4 at Cheshire College
South & West. (CCSW)

- 02 Feb 18 – 28 Feb 18 **General Manager** Unipack Iraq Baghdad. Pre-form packaging material manufacturing with KOKSAN GAZIANTEP / TURKE
- 20 July 17– 12 Jan 2018 **Lead Engineer** JLR Gaydon Climate control New Defender 20 MY responsible for AC lines, compressor, Battery chiller for PHEV and MHEV
- 19 April 17 – 19 July 17 **MidKent College for further and higher education**
Engineering Lecturer
- 15 Mar 17 – 17 April 17 **Project Engineer at M-TEC**
JLR Special Vehicle Operation (SVO) DFMEA armored vehicle
- 18 Dec 15 – 25 Dec 2016 Traveling to (Algeria, Iraq, Canada) back to the UK on the 25 December 2016, available for work.
- 11 May 15 – 17 Dec 2015 **Project engineer, Cooling system, LeanNova,**
VP builds 17 MY Jaguar Engineering Centre, Whitley, Coventry.
- 21Jul14 – 08 May15 **Lead Engineer, Diesel Fuel System, Jaguar Land Rover**
Jaguar Engineering Centre, Whitley, Coventry.
My project diesel fuel system on new engine i6. I was responsible for turbo oil feed and return pipes, dipstick for I6 and I3 engines. Supervise new engineers and teach them the company processes for engineering new component.
- 03 Jan13 – 14 Mar 2014 **Valve train component Engineer, Ford Motor Company**
Dagenham Diesel Centre
- 02 July12 – Nov 2012 **Quality Engineering consultant, Magna Automotive Seating-Turkey**
Quality issues and assembly line process quality control. Squeak and rattle for vehicle seats evaluation by using MB dynamic shaker equipment.
Worked on the Flamingo seats for the V362 (new Transit) with Magna engineering team to evaluate new material change and compatibility for many seat components.
- Nov. 2010 – 29 June 2012 **Auto gearbox Cooling Engineer, Ford Motor Company, Dunton Technical Centre, Essex**
Responsibility includes Auto transmission cooling line for CD 345 with MPS6 transmission and Transit. Solve the NVH issue associated with MPS6 transmission by changing the material for cooling line. Change the flow direction to achieve increase cooling efficiency.
- Oct. 2009 – Sep. 2010 **Validation Engineer, Ford Motor Company, Dunton Technical Centre, Essex**
Validation of the Stop / Start application capability for DV6, Sigma, Puma FWD, Puma RWD, engines. Including development and testing of the electric vehicle (BEV).

Feb. 2009 – Aug. 2009

Senior Validation Engineer, Delphi Diesel System, Gillingham, Kent

Validation of the diesel high pressure pump for Stop/start Hybrid Projects developed statistical/mathematical model for pumps test cycles comparison to assess the aggravation factors for pumps stop/start.

Oct. 2007 – Feb. 2009

Diesel Component Engineer, Ford Motor Company, Dunton Technical Centre, Essex

Diesel engineering/fuel system, Responsible for the ongoing product development of current production (Ford Transit with Puma Engine fitted with DENSO fuel System. Currently, designing and developing a testing rig for the evaluation of the fuel system. Working jointly, with the material laboratory, on investigating the material durability and compatibility of the high-pressure diesel fuel pump for the use of bio diesel fuel.

July 2007 – Oct. 2007

Development Engineer, Product Performance, BP Lubricants UK Ltd, Pangbourne Technology Centre

Developing engine tests procedures, including engine data analysis, for validating lubricants for engine wear and oil consumption. Also, lead a small team to upgrade the break fluid test rig to meet the latest SAE standards.

Jan 2007– July 2007

Diesel Component Engineer, Ford Dunton Technical Centre, Essex

Diesel engineering/fuel system for the Lynx engine
Work includes component & system testing, coast saving, releasing component, and problem solving. Re-design the high pressure pump fuel inlet of the Lion V6/2.7 lit Engine for PSA & solve the problem for Job one (Priming Issue for HP Pump).

July 2003 – 2006

Technical Assistant Engineer, Ford Motor Company, DDC Dagenham

Worked as part of a team dealing with the development of the fuel systems of LION V6 and V8 engines. Duties include component testing, systems testing and problem solving.

July 2002 – Oct. 2002

Development Engineer, Jaguar Cars Ltd.

Worked on implementing an Advanced Vehicle Cooling System in new Jaguar car models (X350). This cooling system uses an advanced technology to provide better engine thermal management and resulting in fuel saving, lower exhaust emissions, performance improvement and higher level of customer satisfaction. Work included resource planning, test scheduling and presenting cost analysis and feasibility studies to company management.

Jan. 2001– June 2002

Engine Test Engineer, Prodrive Ltd, Tanners Drive, Milton Keynes, UK.

Worked as part of a small team that developed and tested the base engine & installation for the Ford 'RS Focus'. The work involved a very tight time/schedule and cost constraints. I also involved specific component testing, overseeing the test cells, issuing test instructions, and processing/assessing both standard and non-standard test data. Other tasks included setting up specific instrumentation for specialised tests such as turbo speed measuring instrumentations (Micro-ε).

Aug. 1999 – Dec.2000

Engine Test Technician, Tickford Engineering Ltd, Rooksley, Milton Keynes, UK.

Responsibilities include supervising and running engine test cells, systems and performing engine tests for objective assessment of various fuel additives and lubricants.

June – October 1998

Fully qualified Technician, Renault Cars (UK), Bristol Street, Milton Keynes, UK.

Work responsibilities included pre-delivery Inspection of new cars, inspection of used cars and general engines repair and service.

June – October 1997

Production line Technician, Ericsson Communication, Bletchley, Milton Keynes, UK.

Responsibilities included overseeing the assembling process of satellite receivers. I identified faults in the design of the satellite's power supply unit and accordingly suggested a design modification of the power unit; ultimately leading to considerable saving in time, material and cost.

1989 – 1990

Test/maintenance Engineer, Estate Electrical Light Industries, Baghdad, Iraq.

EDUCATION

2005- 2007

MSc Automotive Engineering, Department of Aerospace, Automotive and Design Engineering, University of Hertfordshire.

Subjects studied: Advance engines & power systems, Automotive Dynamics & safety, Advance CAE for automotive applications, Computer Aided Engineering, Integrated product engineering, Research Methods and automotive electronics and electrical systems.

MSc Project title: High Pressure Fuel Pipe Optimisation for NVH in a Common Rail Diesel Engine (Sponsored by Ford Motor Company, Dunton Research Centre, Essex, UK).

1996-1999 **BEng Automotive Engineering, Department of Aerospace, Automotive and Design Engineering, University of Hertfordshire.**

Subjects covered over three years of full-time study: Thermodynamics and Heat Transfer, Internal Combustion Engines fundamental, Vibration and Noise Control, Materials, Mechanics Statics and Dynamics, Fluid Mechanics, Vehicles Aerodynamics, Structures Analysis, Manufacturing Processes, Engineering Mathematics, Technical Drawing and Project Management.

Final year project: Design and operation of cooling system for the Formula SAE Racing Car for the SAE Competition. The project involved extensive design calculations and use of thermodynamics and heat transfer principles to produce an appropriate radiator design, which satisfied both the cooling and geometry requirements. The work also involved the fabrication and testing of the designed cooling system.

SKILLS

- Comprehensive user of Microsoft Office software and associated computer tools.
- Fluent in Arabic
- fluent in English
- Experienced in project planning, motivating team members organize the work/team and lead the project to successful conclusion. In addition, can work as a team member or on own initiative.

AWARDS, THANKS & APPRECIATION, AND PATENTS IF ANY.

- Ford Motor Company Powertrain Engineering Excellence award –Third Quarter 2008, for the deletion of high pressure pipe dumpers on lynx engine and improved fuel system design
- Appreciation
- Patents



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