

Mussawar (Maz) Ahmad

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Skills Profile

- **Teamwork:** A number of academic and industrial projects have required teamwork to solve problems. Maintaining a positive attitude, being adaptable and flexible while persuasive and firm results in the ability to work successfully with what is often a multidisciplinary team.
- **Communication:**
 - Verbal – Presentations, teleconferences, phone calls and face to face meetings with customers and colleagues have developed verbal communication while appreciating the impact of body language on the outcome of a conversation.
 - Written – Academic reports, letters, formal and informal emails have all provided platforms on which to develop written English and understand the importance of style and concision.
- **Design for Manufacture:** An appreciation of manufacturing limitations and costs results in the ability to design a product that requires less rework through its development lifecycle, saving time and resources. The PhD requires an understanding of supply chain limitations and how the level of completeness of product determines manufacturing processes implemented.
- **Planning and Organising:** In any setting it is necessary to plan a course of action before committing resources, this maximises efficiency and productivity. For a number of projects Gant charts have been constructed to help manage tasks and identify dependencies.
- **PFMEA (Process failure modes and effects analysis):** Designing a production line requires an understanding of processes and their effects on the quality of the product. While there is a large amount of data available, it is necessary to manage it so that it can be quickly assessed and applied to real world applications.
- **IT**
 - Experience with MATLAB
 - CAD/CAM packages including: Siemens NX. ProDesktop, Autodesk, Solidworks and 2D Design V2.
 - MS Office, Open Office, LaTeX

Education

University of Warwick High Volume Manufacturing of Fuel Cell Stacks for Small Vehicle Applications, PhD. August 2013 – August 2017. This PhD involves working with the High Speed Sustainable Manufacturing Institute and a fuel cell manufacturer called Arcola Energy to help onshore PEM fuel cell manufacturing capability from China. The research focuses on production scale up and automation while requiring an understanding of the business model being implemented for the application of fuel cells in UK vehicles to enable market penetration.

University of Brunel 1st Class Hons, Mechanical Engineering (BEng) 4 Year thick sandwich September 2009 – June 2013. Level 3 Dissertation: Design and set up of an experiment to analyse and compare the variables affecting Diesel and Biodiesel sprays. The ultimate aim of the project is to analyse the resulting combustion characteristics which will be researched further by a group of researchers at Brunel.

Herschel Grammar School A Levels Sept 07 – Jun 09; Product Design A, Maths A, Physics B, Biology B

Herschel Grammar School GCSE Sept 02 – Jun 07; Biology A, Chemistry A*, Physics A*, Maths A*, English Language A, Product Design A*

Employment History

Centrica Energy Mechanical Integrity Engineer (June 2013 – August 2013) This was a summer placement which helped me understand the challenges faced by an E&P business. Key project included the development of a

process for the safe transportation of flanges, a strategy to manage integrity issues and development of a plan to resolve an issue concerning split nuts found in certain condition on offshore platforms.

Robert Bosch GmbH Sample Administrator for Jaguar Land Rover (July 2011 – September 2012) The role was to support the customer in the early stages of design and manufacture by supplying sample parts for prototype builds. This was initially an internship for 12 months but the contract was extended to 15 months to support both Bosch and the customer.

- **Technical:** Understanding the application and importance of the components Bosch supplies to its customers - in particular within Powertrain and Infotainment systems.
- **Communication:** Developing a rapport with the customer to help manage expectations for component lead-times.
- **Teamwork:** Working with a multidisciplinary team including engineering, sales, accounts, quality and manufacturing to assess problems resulting in the development and execution of solutions. I sometimes initiated and lead projects to support the customer and maintain the businesses brand image such as the development of a strategy to meet the challenging demand of two parallel customer programs.
- **Organisation and Process Development:** Identifying a management issue as the customer's portfolio increased, I implemented an innovative tracking system for orders that provided transparency both for the customer and the business. This helped mitigate the risk of 'line stops' as well as simplifying the sample part ordering process.

Part-time Work

Vision Express Optical Assistant (March 2008 – June 2011)

- **Technical:** Gaining an understanding of how lenses work, manufacturing and quality processes for varying grades. Making spectacles and carrying out preliminary exams, both making the use of specialist equipment.
- **Communication:** Answering calls to book appointments, handle queries and answering patient questions.
- **Interpersonal:** Aiding patients in choosing ophthalmic and sun glasses, providing my own opinion to finalise their choice
- **Organisation and Initiative:** Stock check and ordering new stock based on popularity and fashion trends
- **Teamwork:** Working within a team to make customers feel welcome. Bringing together individual skills to close a sale

Herschel Grammar School (Mid-term breaks)

- **Project Management:** Constructing a separating wall between two classrooms. Ensuring manpower, materials and timing plan was in place before project started. Keeping on track and staying within budget.
- **Technical:** Use of power tools and hand tools to construct and disassemble cabinets, desks and worktops

Hobbies and Interests

- Keen interest in internal combustion engine developments and technologies
- Regularly play football, badminton and squash while recently discovering and enjoying the challenge of rock climbing
- Relearning French facilitated by the Rosetta Stone software
- Amateur photography, have had some photos used in internal press and company websites

Reference Available on request