


HAMZA SALEEM

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EDUCATION

University of Bath, Bath, MEng (Hons) Mechanical with Automotive Engineering (5 years sandwich) 2016-2021

Design and Manufacturing	70%	Mathematics	89%	Systems and Control	78%
Electronics	85%	Modelling Techniques	75%	Thermofluids	75%
Experimentation	75%	Solid Mechanics	67%	Degree Classification	73%, 1st

Bishop Vesey's Grammar School, Birmingham, A Level Results 2014-2016

Chemistry	A*	Physics	A*	Extended Project (EPQ):	A
Mathematics	A	Spanish	A	Methods of Vehicle Propulsion	

Bishop Vesey's Grammar School, Birmingham, GCSE Results 2009-2014

9 A*s and 1 A

PLACEMENT YEAR

Powertrain Calibration Intern, Coventry, Robert Bosch Ltd. August 2018-September 2019

- Worked within the Bosch Powertrain Calibration team for the customer Jaguar Land Rover's (JLR) next generation Ingenium Diesel engines.
- Gained an advanced knowledge of the automotive industry particularly in respect to the calibration process as part of a vehicle's development.
- Particular focus on the Diagnostic System Management (DSM) system:
 - Studied the approach used by the Engine Control Unit (ECU) to manage faults within the system.
 - Created support documents to aid calibrators within Bosch how to calibrate these labels accurately.
 - Studied software document to create definitions of fault paths calibrated by Bosch.
- Main application of the DSM was supporting dataset management:
 - Gained an overview of a large number of labels calibrated for strategies including selective catalytic reduction, rail governor etc.
 - Created spreadsheets to manage large amounts of data to aid the calibration process for colleagues within Bosch.
 - Carried out system specific data (SSD) checks to ensure labels had been calibrated correctly; this process often involved analysing code and working with teams across Bosch to find a mutual solution.
- Skills gained in this placement included:
 - Opportunity to take initiative to improve processes e.g. use of VBA coding in Excel to automate certain tasks.
 - Use specialist automotive software e.g. INCA for modifying calibration, AVL CRETA and vCDM for delivering and managing software files.
 - Improve communication skills by working with teams across divisions and with the customer.
 - Get involved in extra-curricular activities e.g. attending careers fairs, organising team events and educating students about STEM subjects.

ENGINEERING PROJECTS

University Laboratories, University of Bath October 2016-June 2017

- Various laboratory projects undertaken both individually and in a team.
- Involved use of advanced apparatus including but not limited to CNC machine to produce a car chassis, Wheatstone bridge circuit and Instron loading cell for testing properties of materials.
- Proficient use of advanced data processing tools such as Excel functions, MATLAB for graph formulation and various other programs for creating diagrams, for example Adobe Illustrator.
- Enhanced ability to critically analyse sources and use scientific theory for concise report writing and methodical and precise experimental skills.
- Further enhanced both verbal and written communication skills through teamwork and presentations.

Design Projects, University of Bath October 2016-June 2017

- Variety undertaken involving both hands-on and computer work including:
 - Disassembling and assembling an engine using tools - understanding the layout of and engine and safe operation of tools.
 - Designing a dragster from balsa wood and a spring - carefully budgeting to get the most performance.
 - Automated component handler as part of the Design and Make project.
- Enhanced computer skills through use of CAD software such as SolidEdge and AutoCAD Fusion.
- Development in various other skills - budgeting, teamwork, compiling reports, allocating tasks and time management.

