**Nigel Thomas**

**5 Ten Shilling Drive, Coventry, CV4 8GZ**

**Mobile: 07867120916,** [**nigilt@gmail.com**](mailto:nigilt@gmail.com)

Looking for new challenging projects.

**Automotive Engineer**

I am an automotive design engineer who is aspiring to work for major Automotive OEMs/Tier1 suppliers within the automotive industry. I am an enthusiastic design engineer keen on getting involved in product design & development and validation process from concept to production.

My current job gives me the experience of working in a prototype specialist production engineering environment. I also get expand my knowledge with complex electro mechanical systems and have system understanding. The job allows me to work in a busy automotive workshop and be used to multi-tasking and working on multiple projects at any one time.

I am looking to improve my knowledge and experience under an inspiring employer who can motivate me to excel at my career.

**Work Experience**

**Prototypes Build Engineer-** Jaguar Land Rover-December 2015-2016

As a prototype build engineer I am responsible for delivering programmes, liaise and support design and engineering teams and NMP team to ensure high level of quality and robust manufacturing processes are implemented through VP gateway.

I am profoundly involved in gathering information on engineering issues, liaising with all relevant programme/ project engineers (internal/external) to a satisfactory resolution, also we are expected to deliver manufacturing plan for new content which includes design feasibility, facility & tooling requirements, process documentation and launch support.

Time/ resource management skills are imperative to manage configuration change and project demand variations and provide an effective conduit between production and design, guiding design to ensure production feasibility.

Experienced with GPIRS, AIMS, APT, GSPAS (process allocation system),Digibuck Vis-Mock-UP, VQS, Greybook Stds, EDS -ECR harness layout change.

Responsibilities:

* Manage various Programme ensuring the issues found in build process are not affecting car targets in the workshop.
* Produce detailed T&F process sheets /WES sheets including visual aids,l torque and tooling detail, Quality &safety requirements info.
* Evaluate manufacturing feasibility for design proposals through Digibuck Vis Mock-Up. Propose changes to designs to improve ergonomics quality and error proofing strategies in process/design.
* Working closely with material planning and logistics team and facility engineers to determine the supply timing of soft and off-tool parts to ensure design validation.
* Working with the team to develop and ensure manpower skill-sets within the workshop are effectively used to meet car targets reflecting the volume mix whilst working on various programmes.
* Prototype vehicle build process experience, supporting build events to ensure technicians/operators are familiar with new process, fitting the right level of parts (part maturity),using correct tooling and achieving and validating quality standards.
* Support and liaise with production staff to ensure lessons learned actions are taken to integrate processes and forward planning activities, also challenge process flaws to ensure improvements are reflecting on X-car line programmes.
* Communicate best practices to product engineers namely Body and Trim ,EDS team and technicians to improve ergonomics, build/process quality including poke yoke or error proofing.

**CAD/ FEA Design Engineer –** Magna Interiors, Cosma Die Technology division – November 2014 – Nov 2015  
I worked in small team who are responsible for raising feasibility concerns from a stamping perspective, provide design solutions in product review meetings. We support engineers closely, meet deadlines and targets to deliver a fully functional car before SOP.

Support engineers, to provide them with stamping feasibility concerns in BIW components and becoming part of resolving the issue.

Responsibilities:

* Operate 3D CAD and FEA systems (Catia v5, Autoform, PamStamp)
* Create detailed reports on stamping feasibility and simultaneous engineering.
* Administer CAD data to meet internal and external requirements, under supervision.
* Support manager/ Project lead with all activities of CAD and FEA simulation to ensure the efficient use of personnel, materials and time.
* Support manager to ensure projects are delivered in timely and meet all Cosma Standards also customer specific Standards and requirements.
* Support of continuous improvement for Corporate Die standards.
* Support Cosma Die Technology engineers globally.

**VGDM( Vehicle Geometry Data Management) Engineer–** Bentley Motors -19/August /2013 – 09/November/ 2014

The CAD tree are built for the purpose of replicating Bentleys BoM within CAD environment, and to provide place holders where engineers can hang their data to enable Design In Context. As a Data Integration Engineer my primary role is building,auditing and maintaining Bentley's CAD Tree structure within PDM system, to time, to process, and quality requirements.

We are responsible for the construction and management of a structured and configured CAD tree to enable the Engineering functions to design in context, and to enable downstream activities such as clash analysis and kinematic studies also to minimise costs and resolve customer problems. This is achieved via:

* Restructuring/maturing of the LCA tree according to the change process carried out at Bentley- flow cell processes.
* Process, design changes at Design & development milestones in the lifecycle of a car. Role requires the CAD tree to be updated in response to Engineering Change Request from Development Engineers.
* Building, auditing and maintaining Bentleys Config handlers to the required timeframe, quality of work and frequency.
* Support in data management process improvement activities; enabling delivery of new business requirements, improve productivity of our existing process.
* Support in the creation of new process documents, and the improvement of existing process documents.
* Support engineers with CAD tree related Engineering issues/queries, to ensure that Bentley PDM structure meets downstream activities.

**Education**

**Kingston University – Kingston-Upon- Thames, Surrey**

BEng Automotive Engineering Design Degree, July 2013

Sound Knowledge in: Engine management, FEA analysis, CAD, aerodynamics, cosmos, brake system design, suspension design, vehicle chassis design, Manufacturing Technology, MRP, BoM.

**Projects**: Design, FEA analysis and design optimisation of Carbon fibre bike frame, Design of *Mars rover’s autonomous navigation system, FEA analysis of brake systems under braking and cornering, CFD analysis of an intake and exhaust manifold for a 3 cylinder engine and optimisation of design , understanding the bending of I-beams under controlled stress/ strain gauge.*

**Kingston College – Kingston-Upon-Thames, Surrey**

HND - Engineering - MMM July 2010

Sound knowledge in: engineering design, mechanical science, project management, structural mechanics and thermodynamics, Auto CAD, orthographic drawings.

**Bushey Hall School – Bushey, Hertfordshire**  
 A-levels, July 2006 - Math, Physics

**CORE COMPETENCIES**

Knowledge in CAD packages: Solid works, Catia V5, Auto CAD, DigiBuck

FEA/CFD analytical skills- optimisation of designs

Autoform 5.2

GPIRS

GSPAS

High level of attention to detail – 2D/3D modelling,

Analytical skills – understanding of design maturation process within automotive industry.

SAP, BoM, SolidWorks, assist with visual mock of CMP (DMU) and design check, work in Bentley PLM/ PDM structures

Decision making skills and learning dexterity

Excellent communication and interpersonal skills

Excel, PowerPoint,

Process improvement, CAD data management, assists with design in context, liaise with engineers.

**Achievements**

Pre-series Build CAD tree on Bentley SUV in LCA

Delivery of critical cars for x540 build at JLR pilot plant

Process improvements and EDS wiring harness layout change on x260 at JLR pilot plant.

**References**

Brian Bugeja, Technical Manger- Bentley Motors, Crewe

Lee Pennells , Assistant manager - Cosma Die technology UK division – Warwick

Andy King, Pilot plant Manager at - JLR ,Browns lane.