

# LUKE BANGS

An enthusiastic individual with a strong automotive background seeking a stimulating role in which to utilise organisational skills, apply logical intuition and help build long term success within an exciting environment

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## » EDUCATION

- 2011 – 2014:** Loughborough University, Loughborough.  
BEng. Automotive Engineering. Second Class Honours, Upper Division (2:1)
- 2009 – 2011:** Ashcombe Sixth Form College, Dorking.  
3 A Levels; Mathematics (A), Physics (A), History (A) and an AS Level in Economics (A)
- 2003 – 2009:** Ashcombe School, Dorking.  
9½ GCSE's; 3 A\*s, 5 A's, 1½ B's

## » PROFILE

- Date of Birth:** 27/08/1993
- Nationality:** British
- Home Address:** 29 Gladden Fields  
South Woodham  
Chelmsford  
Essex  
CM3 7AH

## » PROFESSIONAL EXPERIENCE

2014 - Present RLE International, Essex



**Digital Engineering Specialist**  
(Jul 2022 - Present)

Development of online web-based applications for automotive problems. Following a couple of months of 1:1 mentoring with a senior developer, I have developed an MVP dashboard tool, built using Next.js, Nest.js, a Neo4j database and a Flask API to call a Python algorithm. The tool collects inputs from a user, calculates several optimal DVP plans and then presents the options in several ways to enable further user decisions.

**Data Management Analyst**  
(Jul 2019 - Jul 2022)

Joined a small team in developing a scalable timing plan web-based tool for automotive projects. Collected data from field experts to generate a full development plan for the automotive process and developed a solution for maintaining a Neo4j database via a custom-built Excel sheet to store the collected knowledge. Managed feature requests and guided the developers through implementing improvements for users.

**Process Development**  
(Jul 2015 - Jul 2019)

Internally I have been responsible for the creation of numerous project tracking documents for the organisation and a range of customers through Excel and VBA coding. Projects included timesheet & holiday management, cost & resource estimating, warehouse storage tracking and a technical documentation library.

**Project Engineer**  
(Jun 2018 - Jul 2019)

Lead engineer for the Body Closures function group for a low production build taking designs from concept to production. I also owned systems within Body Exteriors and Interiors and designed an Excel BoM management tool on SharePoint to track team costs, weights and timings for all systems. Design proposals presented and justified to management to confirm system functionality for financial sign off. Robust resolution plans developed where required to meet extended targets.

**Project Engineer**  
(Feb 2016 - Jun 2018)

Development of lightweight rear closure door hinges to replace a high-volume multinational OEM's overly complex design for a weight and cost saving. Steel cast hinges incorporated with a new check arm design that became common across all commercial vehicle variants. Cross-continental implementation in three production plants achieved through managing multiple supply chain costs and timing. Continued interaction with suppliers to find cost down opportunities, functionally test the designed system and improve assembly processes for enhanced part quality.

**Graduate Engineer**  
(Jul 2015 - Feb 2016)

After re-locating to the customer's location, I assumed a larger number of responsibilities including the delivery of an engineered automotive solution for a new super series car dihedral door system. I worked directly with several suppliers, managing budgets and delivery plans from development phase into prototype build.

**Project Support**  
(Sep 2014 - Jul 2015)

I began in a graduate support role at a high-end low volume sports car manufacturer, familiarising myself with the processes of OEMs and developing project planning tools for mapping project resources using Excel and VBA macros.

**2011 - 2014**

**Opus 2 International, London (Vacation work)**



**Bug Tester**  
(Mar 2014 - Jul 2014)

For the final few months at Opus I was involved in programme bug testing the software and reviewing the sites applications for users.

**Litigation Support Operator**  
(Mar 2011 - Mar 2014)

Responsible for uploading and carefully ensuring legal documents were available for clients in a cloud-based structured environment and delivered within strict deadlines.

## » FURTHER EXPERIENCE

During my time as a project engineer I have gained experience working with a wide range of materials and manufacturing techniques including injection moulding plastics, hand lay-up composites, compression moulding composites, forging metals and die casting metals. I have implemented these processes to support both high volume and prototype build phases and have hands on build experience during launch. I have been responsible for writing and maintaining Technical Specifications, Design Validation Plans and DFMEAs for the systems I owned.

I've built several projects using HTML, CSS and JavaScript, with further experience in React, Next.JS and Node.JS. I have database experience using MySQL and Neo4j with GraphQL calls to return data. Experienced with an extended range of Microsoft programmes, including Visual Basic Application. Trained in MATLAB, Siemens Teamcenter PLM and SAP, with reviewer training in NX Unigraphics and Catia V5.

I consider myself to work strongly and positively in a team environment, easily able to adapt to both the roles of leader or member when required. I am able to listen to other views, take on suggestions, motivate colleagues and resolve differences between members to maximise a team's efficiency.

## » INTERESTS AND SKILLS

I am interested in taking on a challenging role to further develop my own skills, inherit a greater level of responsibility and work for a company I can be passionate about growing. I am a quick learner, keen to understand new processes and programs and understand the reasoning behind each step. My inquisitive nature pushes me to logically apply my knowledge to solve complex technical problems as efficiently as possible.

I'm an active member of a town football club of 8 men's teams, involved in organising and helping develop the growing club base. In my spare time, I have created and maintained a statistics document for the club which reads data directly from the FA website, displays the player's statistics on a self-designed web page and outputs infographics for social media, based on team and player performances.

## » ADDITIONAL INFORMATION

**Languages:** Conversational Spanish with some German & French  
**Driving:** Full license

## » REFERENCES

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(Former RLE Project Manager)