

# BASSEY, ITA

## SKILLS

Control system design and development  
Automated Driving Motion Control Model based design  
Embedded System, Software VV&T (MIL, SIL & HIL)  
A-SPICE, Functional safety and security (ISO 26262)  
Project Management & Software Sign off  
Tools: Matlab®, Simulink®, Stateflow®, dSPACE®, e.t.c.

## EXPERIENCE

### **Snr. Control Engineer | Jaguar Land Rover (JLR)**

**April 2018 - Present**

Applied excellent control engineering and project management skills, to deliver the L3/L4 Automated Vehicle Motion Control (ADMC).

- Led the development and delivery of the ADCM trajectory controller to required standards.
- Designed a robust six degree of freedom state estimator for Localization, path planning and control using multiple sources of motion sensing.
- Engage with stakeholders and CoC to gather and review requirements for the L3/L4 ADCM hardware and software development process

### **Hybrid controls and Integration Engineer | JLR**

**May 2017 – April 2018**

Applied Core control engineering skills and project management to Lead the development of Energy Management (EM) Functions for xEV Supervisory Control

- Led the development of a Multi-machine EM function for xEV.
- Delivered a robust Predictive Energy optimisation function for (MHEV, PHEV, and HEV), yielding eco-innovation credits when tested on real-world cycles

## OBJECTIVE

**A professional Control and Systems Engineer with experience in novel and advanced control Technologies, seeking to push the boundaries of Control engineering, using engineering principles, appropriate tools, methods, processes and standards. Eager to meet new challenges and quickly assimilate the latest technologies within an advancing technological environment.**



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### **Research Control Engineer | IRIS, Norway**

**Feb 2016 – Oct 2016**

Led the development of a control technology for an Oil and gas drilling application.

- Championed the development of a multi-level, multivariate control system to regulate the annular pressure profile during oil and gas drilling
- Applied effective project management techniques to deliver the project on time, within budget and to the required quality standard

### **Research Control Engineer | Coventry Uni.**

**Jan 2015 – March 2016**

Led a model-based development of a control system for an automotive/ oil and gas applications.

- I developed an advanced supervisory control for energy efficient Vehicle HVAC system using a bilinear model designed for control.
- Led the development of a controller for an automated smart drilling system using model predictive control.
- Delivered the project on time, within budget and to required quality/ functional safety standard (ISO 26262)

### **Research Control Engineer | Elekta, Crawley**

**May 2014 – October 2014**

Led the development of a medical technology.

- I developed a software application for Condition Monitoring of a Digital Linear Accelerator and designed a control system to precisely control the motion of the gantry to ensure efficient beam delivery and improve patient comfort.

### **Research Control Engineer | Jaguar Land Rover**

**Jan 2013 – Dec 2013**

Developed and delivered an automotive software tool.

- Designed and developed of a Software Tool for Automated Model-in-the-loop Test Harness
- Successfully integrated the software tool into the JLR QMS and development process
- Delivered the tool on time, within budget and to the required quality/safety standard (ISO 26262)

## **EDUCATION**

### **PhD. Mechanical Automotive and Manufacturing**

Coventry University

**2014- 2019 (In view)**

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### **Msc. Control Engineering (Distinction)**

Coventry University

**2012- 2013**

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### **BEng. Materials & Metallurgical Eng. Federal University of Tech. Owerri**

**2004-2009**

## **CERTIFICATION**

### **Postgraduate Diploma in Industrial Automation/ Advance diploma in process Automation**

Technocrat Automation Solutions- India  
(PLC, HMI, SCADA, DCS, PAC, VFD, Distillation column, Gas turbine, Pump)

**2014**

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### **Cisco Certified Network Associate**

**2012**

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## **VOLUNTEER EXPERIENCE OR LEADERSHIP**

I lead the control engineering centre of competence for Alten Ltd UK. Providing technical leadership to Alten Control Engineers at various JLR sites in the UK.

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Leader of a youth group – MADE  
(*Making a Difference for Eternity*)

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Head of the ICT department of a charity organisation (RCCG CRA, UK)