**Curriculum Vitae - CV**

**Personal Information**

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**Education & Qualifications**

2004 to 2009 University of Edinburgh, UK - Electronic and Electrical Engineering MEng (Hons)

2009 Project Management Institute (PMI) – Qualified and certified Project Manager

2009 Certified IDEAS user

2013 Six Sigma Greenbelt

2014 IET - Charter Engineering (CEng)

2015 Prince2 PM Qualified and certified (Foundation and Practitioner) – Project Management

2017 to 2022 PhD - Autonomous Vehicles react and proceed with atypical situations: Self Learning vs Human

**Recognised Awards**

2004 IBM Young Vision Award – Winner

2008 International Engineering Award Rushlight Engineering Award Winner of the year – HydroPower

2015 Achieved IET Chartership (CEng) status and selected as IET assessor panel in London

2015 Jaguar Land Rover Technical Excellence Award

**Work Experience:**

***Aston Martin – Electric Vehicle (EV) Platform Manager (Oct2017 to Current)***

* Responsible for delivering the first Electric Vehicle Aston Martin, Rapide E
* Develop the first EV platform for the business
* Specialised and managing BIW, interior, exterior and vehicle safety (passive and active safety incl. autonomous vehicle design – ADAS level 4 & 5)
* Re-launch the Lagonda ultra-luxury brand as an EV and full autonomous vehicle (ADAS level 5)
* Lead and manage the engineering team to deliver all aspect of the EV platform (Functional, Quality, Time, Cost and Attribute) incl. compile lesson learnt and future platform strategy
* Company sponsored PhD in autonomous vehicle research and expert reviewer in functional safety (ISO26262)
* Manage 3 project managers, 4 project engineers and 7 CAD designers

***Jaguar Land Rover UK – Programme Leader, Body Engineering (Sep2014 to Oct2017)***

* Responsible for delivering all 20MY PHEV introduction to the platform, and launch the products across all plants (Brazil, China, UK and Austria)
* New business development (technology/ system) – including developing feasible business cases
* Implement and manage the senior management gateways review reports (including finance reports)
* Managing all Recovery Plan (Conformance Plan) internal review and approval process for the department
* Attend programme launch & review meetings. Run module team meeting to cascade programme requirements & progress resolution actions (including prototype builds)
* Lead and review all GRADE, Functional Safety (ISO26262), Device Transmittal (DTs) and supervise all electrical related contents for the programmes
* Manage product life cycles (GPDS), Conformance Plan and resource planning (Incl. financial)
* Manage exterior and internal customers - supervise Tata Technologies (TTL) PLs & MLs, suppliers and JLR internal, as well as leading them to deliver the gateway deliverables
* Introduced a new PCDS Body Engineering Programme Central Report for the Chief Engineers
* Responsible, develop and present business case for senior management at director level
* Admin and improve business process, business consulting and identify design feasibility (Kanban)
* Key main contact for all non UK activities, planning and admiration all internationals builds

***Jaguar Land Rover UK – Interior launch specialist – international assignment - China (Jan2016 to Sep2016)***

***International Assignment in Chery Jaguar Land Rover China, (CJLR) – Shanghai, China***

* Bridging the gap between CJLR and JLR UK and knowledge sharing with the CJLR teams.
* Responsible for all Interiors and Body Mechanics (hardware and software)
* Delivered all interiors & body mechanics for Joint Venture (JV) between Chery and Jaguar Land Rover UK – VP to Job1, DV, PV, quality, manufacturing and product launch
* Present and report problems at DQM, CMM, LMM, PD Tech issues, CPECFE, Process Change, etc
* Liaise and lead 6 CJLR group leaders and coaching their senior engineers where necessary
* Ensure X260LWB meet all legislations and legal requirements at a global level
* Accountable and responsible to delivery all changes of M&U parts for interior and body mechanics (including doing the releases, CAD, supplier sourcing, audits, feasibility and facility audits)
* Responsible, develop and present business case/issues for senior management at director level
* Bring all CJLR learning back to JLR UK and knowledge sharing with the senior management
* Bring CJLR the lesson learnt back to UK and propose any process improvements

Participated projects/achievements included:

* Able to work remotely and without supervision internationally, demonstrated complete flexibility in life style to support the business between China and UK
* Rear trunk drain trim fall off issue – Lead and organize the change and re-work to ensure OKTS
* Boot hinge rail cover (swan neck) – Propose, design, 3D prototype and validation
* Axle whine NVH issues – design, validate, CAD development and supplier sourcing within 48hours
* Dual lock headliner issue – lead JLR UK to revisit this design and deploy this as the solution
* Door casing falling off issue – re-design door casing clips due to BIW difference
* AIMS performance – interior has the most AIMS among BE and I am still achieving >25% throughout

***Jaguar Land Rover UK – Project Leader, ADAS (Sep15 to Nov2015) & Body Engineering (Nov2014 to Dec2015)***

* Programme leader for 18MY Range Rover platform and deliver the first PHEV in the platform
* Supervise 9 module leaders and each module leaders have 10-12 engineers report to them
* Ensure the product to meet all legislations and legal requirements at a global level
* Accountable of the programme budget. Walking the budget from 160M to 130M
* Responsible for aspect all interior, exterior and structure of the project (Hardware and software)
* Responsible, develop and present business case for senior management at director level
* Admin and improve business consulting, programme planning, identify design feasibility
* Manage product life cycles, supplier sourcing and price negotiation
* Regular review and reporting at the senior management (PD Tech issue, CPECFE, LMM, etc)
* Lead and host reviews in 5S, Six Sigma, DFMEA, GRADE, Safety Case and Kensei

Participated projects/achievements included:

* Deliver and launch the new JLR cross platform ADAS system (Traffic Sign Recognition, Driver Drowsiness Monitoring System, Emergency braking system, Lane Keep Assistance, Lane Department Warning, Adaptive Cruise Control, Car2Car communication, Self drive)
* Responsible for all XF LWB interior design, manufacturing and product launch within China
* I mentor 3 other engineers and guide them to become charter engineer (CEng)
* 2018 Range Rover and Ranger Rover Sports complete refresh interior and exterior design
* Responsible and leader in ISO26262 functional safety case to meet the new regulation
* Deliver the World Class Interior (WCI) – Best in fields and class
* ***Deliver the first Plug In Hybrid version*** in Range Rover platform

***McLaren Automotive – Project Lead (Programme Manager), Electrical Engineering (Oct2013 to Sept2014)***

* Supervise 3 subject matter expert (SME) and each SMEs have 4 engineers report to them
* Business consulting for future McLaren Super Race Car. Transfer F1 technology onto road car
* Responsible of all Electrical aspect of the project (hardware and software)
* Design and develop the next generation Super Road Car and maintain world leader position
* Managed multiple future models product development in both financial and engineering aspects
* Product launch support for P1 (priced starting from 866k GBP each) super car and supervisor the warranty reduction division
* Responsible and manage portfolios from 6M-20M GBP per project and resource allocation, cost recovery, sourcing management, Supplier & piece price negotiations and price reductions
* Develop global business case and opportunities and lead the multi discipline teams
* Support and expand the current suppliers database network to allow greater business opportunities and improved company revenue

Participated projects/achievements included:

* Develop the new Mclaren ADAS system – Integrated driver focus racing assistance system (Transform between everyday use hyper sports car into a F1 racing hyper car for road user)
* Project manager and deliver the first everyday use McLaren supercar – 570S and 2018 model year
* Support the global business expansion and lead the Asia operation in capturing the customer requirements – 4x the revenue generation in Asia compared to previous year (2013)
* Deliver the McLaren 650S replacement and revenue generation (100K more than 650S per car)
* Manage the business and strategy consulting for P1 by maximizing the customer customization

***Jaguar Land Rover UK – Programme Leader, Electrical Engineering Department (Oct2011 to Oct2013) Contract***

* Supervise 8 module leaders and each module leaders have 10-12 engineers report to them
* Responsible to deliver all aspect of the programme (hardware & software)
* Business consulting, opportunity development, design/process/strategy development and improvement and host senior management and technical discussion
* Ensure the product to meet all legislations and legal requirements at a global level
* Manage and supervise the EMC, RFI testing, QA and DFMEA
* Lead cost recovery and drive business change cross departments
* Admin and improve business consulting, programme planning, identify design feasibility
* Lead engineering design meeting with suppliers (All electrical circuits and systems design)

Participated projects/achievements included:

* Project manage and launch the multi-CAN architect Range Rover and Range Rover Sports
* Hold the highest Internal Invest Return (IRR) record in 2011
* Deliver the first long wheel base (LWB) Range Rover – first LWB across the business
* Improve revenue generation by delivering the Next Generation infotainment systems
* Project manage in new engines induction – V6, V8, AJ126 and AJ200D
* Responsible for EU5 EU6 emission reduction programs for the company

***EDF ENERGY – Nuclear Reactor Protection Engineer, Reactor Safety and Protection Division (Sept 10 to Oct 11)***

* Work between France and UK, global support for the company as their specialist
* Construction structure analysis and reactor aircraft impact protection design
* Responsible for multiple reactor safety systems design and implementation
* Strong analytical and problem solving skills in complex reactor modeling
* Robust understand and practical design knowledge in various CO2 emission reduction projects
* Project Planning, timing, assist technical research in developing control and instrumentation
* Established nuclear knowledge, practice and operation principal as FTA, HAZID and HAZOP
* Familiar with legal related regulation: site license and engineering standards – Programmable Electronic System (PES), IEC61508, IEC61513, BS7671 and other)

Participated projects/achievements included:

* Support station new structure design to prevent aircraft impact design – Structuring engineering
* Torness Power station sea level measuring instrument replacement project, CAT-3/4
* Drafted the Dungeness Power Station Radio Frequency Interference (RFI) testing procedure
* Implemented Sizewell B Central Control Room (CCR) switch contact issues’ engineering advice note (MMIC and CMOS circuit design, sourcing, testing and implementation)
* Fleet Program: Neutron Flux Detector project, Data Management Project (DMP), CAT-1

### *NISSAN MANUFACTURER UK, QA Graduate Engineer, Project manager (Sept 09 to Aug 10)*

* Global product strategy and production setup in China and India – Joint Venture
* Data research and analysis, project planning and timing, host technical discussion meetings
* Strong data analysis, attention to details, strong knowledge in Human Machine Interface (HMI) and line balancing technics, data modelling and programming
* GPS navigation system implementation, refinement (optimized route calculation) and QA control
* Industrial expert level at GPS route optimization and modeling
* Specialized in MMIC and CMOS circuit design for GPS system and manufacturing optimization
* Supplier Quality Management, ANPQP, 5S, Six Sigma and Kensei review

Participated projects/achievements included:

* Part of the product strategy team for the Leaf battery replacement project
* Promoted from QA graduate position to project manager after 6 months within the company
* Special QA task force for Low Cost Navigation (LCN) warranty claim drive down. From 5% to 0.4% within 3 months and reduce the warranty claim from 5millions Euro to 1million Euro
* Project Manager for Central Document Management System (CDMS), design, specify and supplier/contract management – modelling, programming and managerial experience
* Implemented the High Capability Tooling analysis software (saving the business 72hrs per week)

### *Bio-Computation-Biology (BCB) Researcher, Uni. Of Edinburgh, UK (Year in industry, Jan 08 to Dec 08)*

* Researcher in Genetic Disease system analysis – software & hardware design implementation
* iSLI industrial engineering experience in FPGA parallel system (self-configuration design - Artificial Intelligent) and implementation in Bioinformatics Computational Biology (BCB)
* Cutting edge hardware and software design in cross platforms environment
* Strong analytical skills with world class researcher leader experience
* DNA, RNA and Protein sequence alignment programming via FPGA system
* Established knowledge in Xilinx FPGA servers, RS1, Celoxica system design environment, Matlab, JAVA, C, C++ and MYSQL.
* Developer level programming skills in multi-platform across various major programming languages, software architect design and functional programming
* Team working toward international professional publication
* 400% performance increase as the result of my work (From 97sec to 17sec) in BCB sequence alignments

### *OTHER EMPLOYMENT AND RESPONSIBILITIES*

* XYRATEX - Ex IBM data storage division, UK (Summer Placement 2007)
  + Establish knowledge in patent review and patent submission
  + Investigate the technology roadmap in order to supply the company with the right design philosophies and future production direction
  + Compiled research and informational materials as a report, predicting the technology road map and make recommendation in company investment direction
* Vice Present of University Society
* Australia Academic Services, Hong Kong & China - Education Consultant
  + Achievement: Outstanding Performance in expanding the European Market
* MORI, UK - Telephone Marketing Researcher
* The Edinburgh Chinese Community School (Charity No. SCO30510) - Language Teacher

### *REFERENCE*

1. Reference can be provided upon request