

- Experienced and motivated leader with the ability to direct, manage and work in globally located teams.
- Understands strategic vision with an ability to formulate a strategy to execute it.
- Skilled project manager with *PRINCE2*<sup>®</sup> certification. Highly competent in establishing KPIs & associated metrics.
- Experienced in global team leadership, physical & virtual product development & a natural problem solver.
- Assertive Chartered Engineer, proficient in analysis-led design of automotive systems.
- Extensive knowledge of product development processes, business processes & workflows.
- Excellent engineering fundamentals with published research & doctorate in aerodynamics, vehicle stability and fuel efficiency.
- Natural ability to mentor graduates and early professionals with potential to excel.

## WORK EXPERIENCE

### NOTEWORTHY CURRENT / RECENT EXPERIENCE

Sep 2015 to present:

#### Engineering Manager

**RLE International Product Development Ltd., Essex & Warwickshire (UK)**

- Liaising with clients and identifying cross-sector growth opportunities for business development.
- Providing strategic input to the company road map & supporting directors in executing the company vision.
- Responsible for managing resources for engineering projects - on and off shore personnel.
- Liaising with, and supporting engineering project leaders and tracking project timing, resources and costs.
- Developing project management, administration, progress and issue tracking and reporting tools.

Aug 2022 to Present:

#### Key Account Manager – Engineering Projects (Aston Martin)

**RLE International Product Development Ltd., Warwickshire (UK)**

- Responsible for providing engineering services to OEM for delivering projects.
- Management of staff deployed on programs across various departments.
- Managing individual expectations for different client Engineering Managers.
- Resolving issues & arbitrating conflicts.
- Understanding client expectations of individual activities & preparing quotes.
- Reviewing status of delivery with clients.
- Establishing & tracking KPIs to maintain profitability & grow account.
- Reporting weekly, monthly & annual status to RLE management & client.
- Working with RLE functional leaders & recruitment to identify appropriate resources to fulfil project requirements.

Jan 2023 to Present:

#### Vehicle Line Manager – Body Structures (DB12 & Vantage)

**Aston Martin [through RLE International Product Development Ltd.], Warwickshire (UK)**

- Responsible for coordination & management of program deliverables of functional team.
- Accountability of engineering deliverables like releases.
- Coordination of build & test issues, containments and resolution implementation
- Management of functional budget & costs.
- Representation of functional input for gateway events.

### PREVIOUS EXPERIENCE

- Aug 2020 to May 2022: **Senior Project Manager – Level 5 Autonomous EV Engineering Project 3 Mobility** [through RLE International Product Development Ltd.], Warwickshire (UK)
  - Leading a team of senior managers, subject matter experts & executives to successfully quote & win a turn-key automotive product development project, worth approx. €50M, for a level 5 autonomous vehicle.
  - Management of an engineering organisation for development of automotive commodities, electrical, powertrain systems, vehicle integration, testing development and the project management office.
  - Working with OEM to establish project deliverables. Supporting the OEM in optimisation of the project timing.
  - Providing direction & guidance to project management office for establishing full suite of KPIs & associated metrics.
  - Chairing regular project reviews to measure overall project health, identify risks, provide direction, arbitrate conflicts and work with OEM to provide the necessary support to the project delivery organization.
  - Establishing a framework for large scale project control with a complex set of resources.
- Feb 2017 to Sep 2020: **Project Leader – Vehicle Outrigger Systems Jaguar Land Rover & Aston Martin** [through RLE International Product Development Ltd.], Warwickshire (UK)
  - Leading an engineering & manufacturing team for development & delivery of outrigger systems for stability testing of prototype vehicles.
  - Ensuring the design meets functional, safety, performance, manufacturing, assembly and vehicle fitting requirements.
  - Apply analysis-led-design to minimise design churn.
  - Maintaining archetype standards for quick deployment of established design practices and lessons learnt.
  - Regularly presenting the concept and design to the client.
  - Managing the manufacturing teams and suppliers to deliver as per cost, quality and time.
- Apr 2020 to Sep 2020: **Project Manager – Wireless EV Charging Integration Sprint Power** [through RLE International Product Development Ltd.], Warwickshire (UK)
  - Management of a functional team to benchmark, design & develop engineering solutions to retrofit a wireless induction charging system to existing electric vehicles.
  - Exploring engineering solutions to deliver functional & legal requirements within mechanical & electrical constraints.
  - Liaising with cross-functional teams for inputs as well as delivering the engineered data within timing constraints.
  - Providing direction and making key decisions to ensure consistent progress.

- Jan 2020 to Apr 2020: **Project Manager – Electric Pickup Truck Engineering**  
**Lordstown Motor Corporation** [through RLE International Product Development Ltd.], Warwickshire (UK) & Dearborn (USA)

  - Management of project to deliver the design and development of an all-new electric vehicle platform for a new OEM.
  - Management, consolidation and reporting of deliverables for globally located teams to ensure achievement of coherent and consistent objectives.
  - Coordination of activities, prioritization of tasks and alignment of teams with suppliers and OEM to achieve planned deliverables within timing and cost targets.
  - Providing direction to commodity and functional teams and making key decisions to ensure consistent progress.
- Oct 2019 to Jan 2020: **Virtual Validation (CAE) Manager & Integration Engineer**  
**Lordstown Motor Corporation** [through RLE International Product Development Ltd.], Warwickshire (UK) & Dearborn (USA)

  - Leading the functional team for virtual verification of the design for a new platform for an electric pickup truck, using established CAE tools.
  - Delivering the validation suite to satisfy vehicle requirements within prescribed deadlines.
  - Leading the safety and compliance team to identify detailed requirements for legal, insurance and consumer regulations for homologation and occupant safety.
- Jul 2019 to Oct 2019: **Project Management Engineer**  
**Lordstown Motor Corporation** [through RLE International Product Development Ltd.], Warwickshire (UK) & Dearborn (USA)

  - Product development strategy & planning for a new vehicle platform for a North American automotive start-up OEM.
  - Development of infrastructure and strategy for bill of materials, vehicle attributes and engineering road map.
  - Establishing deliverables for key milestones for the full duration of the project.
  - Liaising with engineering project and commodity teams to ensure robust adherence to processes and standards.
- May to Jun 2019: **External examiner for Doctoral Research Degree (PhD)**  
**University of Huddersfield**, Huddersfield (UK)

  - Review of doctoral thesis and examine the candidate through viva voce.
  - Ensure that the quality of the work and that of the consequent thesis meets the highest possible technical and literary standards, commensurate with a doctoral research degree.
- Apr 2019 to Jun 2019: **Package Team Leader**  
**Aston Martin Red Bull** [through RLE International Product Development Ltd.], Milton Keynes (UK)

  - Leading a team of assessment engineers for cross-functional package integration on a low-volume hybrid hyper car.
  - Liaising with engineering project teams to ensure robust adherence to package standards.
- Sep 2017 to Apr 2019: **TVM Team Leader**  
**Aston Martin** [through RLE International Product Development Ltd.], Warwickshire (UK)

  - Leading a team of TVM engineers for cost reduction of automotive body content for OEM of premium sports GT vehicles.
  - Coordinating engineering changes on low volume products with annual targets between £500k & £1M.
  - Preparing fact-based plans and managing micro-teams for each change.
- Feb to Sep 2017: **Virtual Validation (CAE) Manager – Body Panels & Structure**  
**Aston Martin** [through RLE International Product Development Ltd.], Warwickshire (UK)

  - Leading a functional team for virtual testing of automotive body structure, panels, closures and trim for a premium GT SUV.
  - Delivering the validation suite to achieve vehicle requirements within prescribed deadlines.
- Jan to Sep 2015: **Virtual Validation (CAE) Manager – All Body Systems**  
**McLaren Automotive** [through RLE International Product Development Ltd.], Essex & Surrey (UK)

  - Responsible for expanding virtual testing capability of the organisation to include other global sites of the group.
  - Leading a CAE team for virtual development of automotive body panels, closures & trim for a luxury super car program.
  - Managing globally located engineering teams for virtual development within prescribed deadlines.
- Oct 2013 to Sep 2017: **Product Development Process SME & Trainer**  
**RLE International Product Development Ltd.**, Essex (UK), Valencia (Spain) & various locations (Germany)

  - Lead the concept development of framework of in-house product development based on industry best practices.
  - Generation of intuitive, concise and quick-to-deploy training material for agile product launch teams.
  - Conducting workshops for automotive product launch teams.
  - Creation and maintenance of comprehensive library of application-specific business process documentation.
- Mar 2012 to Feb 2017: **IMechE Liaison**  
**RLE International Product Development Ltd.**, Essex (UK)

  - 'Point of contact' with IMechE, to organise membership activities and professional registration of employees.
  - Providing guidance and support to staff members in the process of professional registration.
- Nov 2013 to Sep 2015: **Project Manager – Consortium Partner**  
**Innovate UK** [through RLE International Product Development Ltd.], various locations (UK)

  - Leading a functional team in a consortium for a government funded vehicle development project worth £1.9M.
  - Liaising with consortium partners on product development and project issues.
  - Periodically reporting team progress and status to company leadership, consortium management and the funding organisation.
- May 2011 to Sep 2017: **EV Development Engineer**  
**RLE International Product Development Ltd.**, Essex (UK)

  - Development & testing of in-house electric vehicle.
  - Performing application trials & drive cycle analysis using on-board data acquisition.

- **May 2011 to Oct 2013: Technical Project Coordinator**  
*RLE International Product Development Ltd., Essex (UK)*
  - Leading an administration & coordination team to support design & engineering of vehicle body structure development for high volume medium duty van.
  - Organising & tracking automotive tests for design verification to support new product development.
  - Liaising with OEM stakeholders to map requirements, processes & integrating with OEM processes & systems.
  - Liaising with engineering, manufacturing, finance & purchase teams & tracking project timing, costs, issues & changes.
- **Jan 2009 to Sep 2010: International Student Ambassador**  
*University of Huddersfield, Huddersfield (UK)*
  - Email-based interaction with & management of queries for prospective as well as enrolled international students.
  - Managing non-academic queries from prospective international students & those newly arrived in the country.
- **Jan 2007 to Oct 2010: Supporting Lecturer as Researcher**  
*University of Huddersfield, Huddersfield (UK)*
  - Delivering theoretical lectures, designing and conducting laboratory experiments and evaluation of student performance for Mechanical Engineering modules of Thermo-fluids and CFD.
  - Supervision of academic projects for M.Sc. students and providing academic support to undergraduate and post-graduate students.
- **Feb 2004 to Oct 2006: Customer Service Consultant**  
*GTL Limited, Mumbai (India); GE Money, Leeds (UK); and Halifax Bank of Scotland, Leeds (UK)*
  - Interaction and management of customer queries and concerns relating to financial savings products.
  - Telephone-based sales of value-added financial services to existing customers of various financial products.
  - Providing telephone-based customer service for a UK-based telecommunications provider.
  - Telemarketing of financial products to customers in USA and UK.

## QUALIFICATIONS & CERTIFICATIONS

- **PRINCE2 Practitioner**, Axelos (UK), Mar. 2022  
PM Principles: Continued business justification; Learning from experience; Defined roles & responsibilities; Managing by stages; Managing by exception; Focus on output; Tailoring to requirements.  
PM Themes: Business case; Organization; Change; Risk; Progress; Plans; Quality.  
PM Processes: Project Start; Project Initiation; Project Direction; Stage Control; Stage Boundaries; Product Delivery; Project Closure.
- **Ph.D. Mechanical Engineering**, full time research, University of Huddersfield (UK), Sep. 2006 to Feb. 2011  
Thesis: Effects of a Novel Aerodynamic Intervention for Heavy Commercial Vehicles on Fuel Saving and Stability.  
Teaching Activities: Supporting lecturer for delivering theoretical lectures, designing and conducting laboratory experiments and evaluation of student performance for Mechanical Engineering modules of Thermo-fluids and CFD. Supervised MSc projects.
- **M.Sc. Automotive Systems Design & Analysis**, full time taught, University of Huddersfield (UK), Sep. 2005 to Sep. 2006  
**Distinction (73%)**  
Automotive Chassis Systems: Wheels, suspension and braking system design.  
Vehicle Dynamic Performance Evaluation: Vehicle performance, stability and fuel consumption.  
Computer Aided Vehicle Design: 3 dimensional computer-aided design and engineering.  
Design Analysis: Finite element analysis.  
Refinement, NVH & System Measurement: Vehicle ride frequencies, noise, vibration and harshness.  
Vehicle Aerodynamics and Air Management: Aerodynamic forces and moments, air management systems.
- **B.Eng. Instrumentation and Control**, full time taught, University of Pune (India), Sep. 1998 to Dec. 2003  
**Higher Second Class (56.93%, equivalent to UK 2.1)**

## AFFILIATIONS

- **Institution of Mechanical Engineers (IMechE)**, May 2013 to present – Chartered Member (CEng MIMechE).
- **Vehicle System Dynamics – International Journal of Vehicle Mechanics and Mobility**, 2017 to present – Reviewer.
- **Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engg.**, 2019 to present – Reviewer.
- **Institution of Mechanical Engineers (IMechE)**, Feb 2012 to May 2013 – Associate Member (AMIMechE).
- **International Society of Automation (ISA), Pravara Division (India)**, 1999 to 2000 – Industrial Liaison.

## OEM PROCESS SKILLS AND EXPERIENCE

- Aston Martin Lagonda : Goldcrest, ECMS2, CMS, Wave, TcVis, ERN, PCR, concerns, containments.
- Ford Motor Company : GPDS Product Development, WERS & AVBOM parts management, AIMS issues, WACTS, Change management, EFDVS requirements management, INTEGRATOR deliverables management, Ford-specific launch proficiency.
- Jaguar Land Rover : Basic change management, launch fundamentals.

## COMPUTING SKILLS

### BUSINESS SOFTWARE PACKAGES

- Project management packages like *Microsoft Project, Jira & Smartsheet*.
- Basic knowledge of data analysis tools like *Microsoft Power BI*.
- Excellent proficiency in data analysis using *Microsoft Access & Excel*.
- Office suites - *Microsoft Office/365 (Outlook, Word, Excel, PowerPoint), Google Suite* and *Libre Office*.
- Collaboration tools like *Microsoft SharePoint* and *Google Drive*.

### ENGINEERING SOFTWARE PACKAGES

- Very good working knowledge of PLM environment *Teamcenter Enterprise*<sup>®</sup>.
- Very good working knowledge of 3D visualization & interrogation tool *Teamcenter Visualization Mockup*<sup>®</sup>.
- Good working knowledge of mathematical development, computation and analysis package (*MATLAB*<sup>®</sup>)
- Good knowledge of Computational Fluid Dynamic (CFD) analysis (*Fluent*<sup>®</sup>, *OpenFOAM*, *COSMOSFloWorks*<sup>®</sup>) packages.
- Basic knowledge of 3-D modelling (*SolidWorks*<sup>®</sup>, *Pro/ENGINEER*<sup>®</sup>) and finite element analysis (*Pro/MECHANICA*<sup>®</sup>) packages.

### PROGRAMMING AND SCRIPTING

- Very good working knowledge of POSIX-compliant *Linux*-based scripting.
- Very good working knowledge of *Visual Basic*<sup>®</sup>, XML, HTML 5, CSS 3, *Javascript, PHP & Python*.
- Good working knowledge of *Git* version control and associated platforms like *Github, Gitlab & BitBucket*.
- Basic knowledge of *C, C++* and assembly language programming of microprocessors and microcontrollers.
- Basic knowledge of Programmable Logic Controllers (PLC) ladder programming.
- Basic knowledge *Windows*<sup>®</sup> platform scripting.

## ACADEMIC PROJECTS

- Oct. 2010: Research Project  
***Design and Optimisation of a Novel Aerodynamic Fuel-Saving Device***  
This project involved computational fluid dynamic (CFD) and experimental analyses of a novel add-on fuel saving device for heavy commercial vehicles (HCV). Funding for this project was secured from Yorkshire Forward through technical and commercial presentations. A retrofit device was developed in collaboration with industrial consultants, a freight operator, a trailer manufacturer and a fabricator. The developed device was successfully field-tested on the test track at MIRA (Nuneaton, UK).
- Sep. 2009: Equipment Purchase  
***Flow Measurement Instruments in Automotive Laboratory***  
This project involved establishing technical specifications and negotiating with suppliers for purchasing of various flow measuring instruments with a total project worth of up to £150k for University of Huddersfield. This included particle image velocimetry (PIV), laser Doppler anemometer (LDA), 6-component balance for the wind tunnel and a multi-purpose 3-axis traverse system.
- Sep. 2006: M.Sc. Project  
***Analysis & Solution of Brake Squeal for Carbon Ceramic Disc Brake Rotor for Bentley Motors Limited***  
Multiple analyses and validation of a given noisy brake were carried out using finite element modal analysis, tap testing, LMS<sup>®</sup> frequency analysis and extensive laboratory testing. Various solutions using mathematical modelling, spacer shims, and disc brake pad profiling using established theories.
- Apr. 2003: B.Eng. Project  
***Microcontroller-Based Automotive By-Wire Systems***  
This project involved implementation of throttle-by-wire and steer-by-wire systems in a leisure kart using a MCS-51 microcontroller. The kart used in this project was sponsored by a popular kart manufacturer. Simple mechatronic systems were developed by replacing essential mechanical connections with electronic links, all centrally controlled by a microcontroller. Electronic control was successfully achieved by employing transducers and actuators to complete the mechatronic link.

## ACHIEVEMENT

- Magazine Feature  
***Science Engineering and Technology Worldwide (SET), Vol. 4, Issue 4, pp. 83.***  
Student profile featured on being awarded a full scholarship for a three-year full time university-funded research program from the University of Huddersfield (UK); based on scoring a distinction in the preceding Master's degree (MSc), leading to PhD degree.

## SKILLS & COMPETENCIES

- Proficient in written & spoken English; and able to communicate effectively with seniors, peers, colleagues & clients.
- Manage globally located teams of members with diverse work cultures & skills. Provide clear direction & arbitrate conflicts.
- Able to consolidate and analyse information, make decisions and provide direction.
- Able to approach problems in a logical and scientific manner.
- Natural ability to mentor graduate and early professionals.

## PUBLICATIONS

### JOURNAL ARTICLES

1. Apr. 2018: *Arabian Journal for Science and Engineering*. 2018, pp. 1-19, doi:10.1007/s13369-018-3185-3  
Malviya V, Asim T, Sendanayake I, 'Development of a Novel Characterisation Methodology for the Aerodynamic Coefficients of a Tractor-Trailer Unit Based on Relative Flow Angles and Vehicle Dimensions'.
2. Oct. 2014: *Applied Mathematical Modelling*. Vol. 38, Issues 19-20, pp. 4756-4777, doi: 10.1016/j.apm.2014.03.029  
Malviya V, Mishra R, 'Development of an analytical multi-variable steady-state vehicle stability model for heavy road vehicles'.
3. Jun. 2010: *Advances in Mechanical Engineering*. Vol. 2010, doi:10.1155/2010/763718  
Malviya V, Mishra R, Palmer E, 'CFD Investigation on 3-Dimensional Interference of a Five-Hole Probe in an Automotive Wheel Arch'.
4. Dec. 2009: *Engineering Applications of Computational Fluid Mechanics*. Vol. 3, Part 4, pp. 587-607.  
Malviya V, Mishra R, Fieldhouse J. 'CFD Investigation of a Novel Fuel-Saving Device for Articulated Tractor-Trailer Combinations'.

### CONFERENCE ARTICLES

5. Dec. 2010: *37<sup>th</sup> National & 4<sup>th</sup> International Conference on Fluid Mechanics and Fluid Power*, Chennai (India): Indian Institute of Technology  
Malviya V, Mishra R, Ubbi K, 'CFD Analysis on the Influence of Area of the Exposed Semitrailer Face on the Aerodynamic Drag for a Tractor-Trailer Combination'.
6. Dec. 2009: *Computing and Engineering Annual Researchers' Conference*, Huddersfield (UK): University of Huddersfield  
Malviya V, Mishra R, Gundala N. 'Effect of Cross Wind on Aerodynamic Coefficients of Ground Vehicles'.
7. Dec. 2009: *Thirty Sixth National Conference on Fluid Mechanics and Fluid Power*, Pune (India): Kirloskar Brothers Limited.  
Malviya V, Mishra R, Gundala N. 'CFD-Based Modelling of the Variation of Aerodynamic Coefficients with Wind Angle' (69-CFD-13).
8. Jun. 2009: *12<sup>th</sup> EAEC European Automotive Congress*, Bratislava (Slovakia): Slovak Society of Automotive Engineers.  
Malviya V, Mishra R, Fieldhouse, J. 'Enhanced Vehicle Stability Model'
9. Dec. 2008: *Computing and Engineering Annual Researchers' Conference 2008*, Huddersfield (UK), Huddersfield (UK): University of Huddersfield, pp. 1-8.  
Malviya V, Mishra R, Fieldhouse J. 'Comparative Computational Analysis of Drag-Reducing Devices for Tractor-Trailers'.
10. Dec. 2007: *Thirty Fourth National Conference on Fluid Mechanics and Fluid Power*, Ranchi (India): Birla Institute of Technology, pp. 113-122.  
Malviya, V., Mishra, R., Palmer, E. and Majumdar, B. (2007) 'CFD Based Analysis of the Effect of Multi-Hole Pressure Probe Geometry on Flow Field Interference'.
11. Dec. 2007: *Computing and Engineering Annual Researchers' Conference 2007*, Huddersfield (UK): University of Huddersfield.  
Malviya V, Mishra R, Palmer E, Majumdar B. 'Numerical Analysis and Optimisation of Multi-Hole Pressure Probe Geometry'.

## REFERENCES

References are available on request.