

**Janaka Ranganath Gamage**

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**Phone** : +94 11 265 0301 Ext 4531; +94 71 487 1303**Email** : [gamagejr@uom.lk](mailto:gamagejr@uom.lk)**EDUCATION**

| Degree  | Institution                                    | Dates             | Subject Area                                |
|---|--|-------------------|---|
| Doctor of Philosophy                          | Glasgow Caledonian University, United Kingdom. | 03/2013 - 03/2017 | Sustainable Machining, Environment Analysis |
| Master of Philosophy                          | University of Strathclyde, United Kingdom.     | 02/2012 - 11/2014 | Automotive Remanufacturing                  |
| Bachelor of the Science of Engineering (Hons) | University of Moratuwa, Sri Lanka              | 06/2002 - 11/2006 | Mechanical Engineering                      |

**a) Professional Qualifications**

- Chartered Institute of Management Accountants (CIMA - UK) Professional Qualification -Passed finalist (2010)

**b) Memberships in professional bodies**

- Member - Institution of Mechanical Engineers (CEng MIMechE) - 80180186
- Corporate Member - Institution of Engineers Sri Lanka (CEng MIESL) - M 9316

**c) Continuing Education / CPD**

1. General Data Protection Regulations training (GDPR) certificate (27/06/2020), Institution of Mechanical Engineers (IMechE), UK.
2. One-day workshop on preparing for Washington Accord Accreditation by Prof. Julia Lamborn, Monash University Australia, organised by IESL at Hilton Residencies, Colombo, Sri Lanka - 27/01/2020
3. Certificate in Teaching in Higher Education (CTHE) (05/2018- 24-day programme) – Staff Development Centre, University of Kelaniya, Sri Lanka.
4. ISO 14001 Consultant Development Training 3-Day Programme 2017, Organised by National Cleaner Production Centre (NCPC) Sri Lanka, 18<sup>th</sup> -20<sup>th</sup> December 2017.
5. Graduate Teaching Assistant (GTA) training (2013-2016) - Glasgow Caledonian University, UK
6. 3-Day GRADSchooL Training Programme held at Glasgow Caledonian University 17-19 June 2014, UK.
7. Completed Five-day Workshop on *Capacity Building Training Programme on Cleaner Production for University Academics* - Organised by National Cleaner Production Centre (NCPC) Sri Lanka, 22-26 June 2009.

**EMPLOYMENT**

| Position                | Organisation  | Dates                               |
|-------------------------|---|-------------------------------------|
| Senior Lecturer         | University of Moratuwa, Department of Mechanical Engineering            | 2017/05– Present                    |
| Lecturer (Probationary) | University of Moratuwa, Department of Mechanical Engineering, Sri Lanka | 2010/11 – 2017/05                   |
| Lecturer (Contract)     | University of Moratuwa, Department of Mechanical Engineering, Sri Lanka | 2008/09 – 2010/10                   |
| Visiting Lecturer       | Kotelawala Defence University, Sri Lanka                                | 2009/08 – 2011/08 & 2017/09-2018/01 |
| Visiting Lecturer       | University of Ruhuna, Sri Lanka   | 2018/01 – 2018/05                   |
| Mechanical Engineer     | Cargills Ceylon PLC, Sri Lanka  | 2007/03 – 2007/09                   |
| Instructor              | University of Moratuwa Department of Mechanical Engineering             | 2006/11 – 2007/02 & 2007/10-2008/08 |

**TEACHING EXPERIENCE****a) Undergraduate (Mechanical Engineering) courses taught and assisted at the University of Moratuwa**

| Year                       | Course   | Role                                    | Class size |
|----------------------------|--|---|------------|
| 2017-present               | ME4392 - Advanced Aspects of Manufacturing         | Lecturer & Module coordinator           | 80         |
| 2022- present              | ME2024- Manufacturing Processes                    | Lecturer & Module coordinator           | 120        |
| 2018 - 2022                | ME2023 – Manufacturing Engineering I               | Lecturer & Module coordinator           | 120        |
| 2018 - present             | ME2170 – Manufacturing Engineering II              | Lecturer & Module coordinator           | 120        |
| 2008-2012 & 2017 - present | ME 4452 – Industrial Project Management            | Lecturer & Module coordinator           | 80         |
| 2008-2012 & 2017 - present | ME4072 – Industrial Engineering                    | Lecturer                                | 100        |
| 2008-2012 & 2017 - present | ME3042 – Production and Operations Management      | Lecturer                                | 100        |
| 2018- present              | ME1070 – Manufacturing Technology                  | Lecturer (Module coordinator till 2021) | 120        |
| 2018 - present             | ME3200 – Machine Design Project                    | Lecturer/Supervisor                     | 100        |
| 2019                       | ME1802 – Introduction to Manufacturing Engineering | Lecturer                                | 230        |
| 2019                       | ME4020 - Aircraft Materials and Manufacturing      | Lecturer & Module coordinator           | 10         |
| 2018                       | ME2850 - Fundamentals of Machine Design            | Lecturer                                | 48         |

**b) Postgraduate teaching at the University of Moratuwa**

| Year           | Program  | Subject (s)   | Intakes  |
|----------------|--|---|--|
| 2018 - present | MEng/PG Diploma in Manufacturing Systems Engineering | ME5102 – Production and Operations Management<br>ME5122 – Quality Management<br>ME5141 – Special Studies<br>ME5143 - Manufacturing Strategy<br>ME5147 – Sustainable Manufacturing | 2020 - present<br>2017- present<br>2020-present<br>2017- present<br>2020-present |

**RESEARCH SUPERVISION****a) Postgraduate research supervision**

| Year       |          | Degree sought     | Project title   | Main / Co-supervisor                                    |
|------------|----------|-------------------|---|---|
| Start      | End      |                   |   |   |
| Sep 2024   | Ongoing  | MSc               | Parameter Optimisation of Ultrasonic Welding of dissimilar metals.  | Main Supervisor   |
| Jan 2024   | Ongoing  | MSc               | Development of a Quality Framework for the Machine Peeled Cinnamon  | Main supervisor   |
| Mar 2023   | Ongoing  | MPhil             | Development of an Automated Mechanism for Bulk Cinnamon Processing  | Main supervisor   |
| June 2021  | Sep 2023 | PhD               | Eco-efficiency Performance Comparison of Additive and Subtractive Manufactured Parts  | Adjunct research fellow of Curtin University, Australia |
| Nov 2020   | Oct 2023 | MPhil             | Developing a Policy Framework for the Design of Environmentally Sustainable Food Packaging  | Main supervisor   |
| Apr 2018   | Feb 2020 | MSc (by research) | Assessment of the Barriers and Development of Solutions to Promote the Local Automotive Remanufacturing   | Main supervisor   |
| Sep 2019   | Apr 2021 | MSc (by research) | Optimising the Operational Parameters and Conditions to Enhance the Environmental Sustainability of Turning Operation   | Main supervisor   |
| Jan-2018   | Aug 2022 | MSc (by research) | Assessment of Environmental Performance of Milling Machining  | Main supervisor   |
| Apr-2020   | Aug-2024 | MBA               | Design of a Single Platform for Integrating ERP and RFID Systems for Improved Procurement Performance: A Case Study in the Rubber Glove Manufacturing Industry  | Main supervisor   |
| Jan - 2021 | Jan 2023 | MEng              | Investigation of Ultrasonic Welding for Joining Polylactic Acid based Bio-Degradable Packaging Materials  | Main supervisor   |
| Jan -2021  | Feb 2023 | MEng              | Development of a Framework to Promote Automotive Remanufacturing: Case Study of Automotive Repairing, Rebuilding and Remanufacturing Practitioners in Sri Lanka | Main supervisor   |
| Jan -2021  | Feb 2023 | MEng              | Developing a Framework to Promote Die and Mould Remanufacturing in Sri Lanka  | Main supervisor   |
| Jan -2021  | Oct 2024 | MEng              | Developing a Framework for Certification of ISO 9001 for the Electrical Equipment Manufacturing Industry in Sri Lanka   | Main supervisor   |
| Jan-2021   | Feb 2023 | MEng              | Developing a Technology Transfer Framework to Uplift Bakery Industry in Sri Lanka.  | Main supervisor   |

**b) Undergraduate (BSc Engineering Honours) Final Year Project Supervision**

| Year      |          | Project title  | Main / Co-supervisor |
|-----------|----------|--|----------------------|
| Start     | End      |  |                      |
| July 2023 | Aug 2024 | Design and Development of a Coconut Deshelling Machine   | Main Supervisor      |
| July 2023 | Aug 2024 | Design and Development of a Bulk Cinnamon Processing Machine                                   | Main supervisor      |
| July 2023 | Aug 2024 | Design and Development of a Machine for Removing the Outer Shell of Nutmeg                     | Main supervisor      |
| July 2023 | Aug 2024 | Design and Development of a Paddy Planting Machine   | Co-supervisor        |
| July 2023 | Aug 2024 | Design and Development of a Water Hyacinth Removal Machine                                     | Co-supervisor        |
| May 2022  | Aug 2023 | Investigating Vehicle Yaw Stability with Torque Vectoring and Active Steering                  | Main supervisor      |
| May 2022  | Aug 2023 | Design and Development of Palmyra Leaf Base Fibre Extraction Machine                           | Main supervisor      |
| May 2022  | Aug 2023 | Design and Development of an in-wheel rear Suspension System for Electric A-segment automobile | Main supervisor      |
| May 2022  | Aug 2023 | Design and Development of a Bulk Cinnamon Processing Machine                                   | Main supervisor      |
| May 2021  | Dec 2022 | Development of a Scaled Vehicle Model for Dynamics Testing                                     | Main supervisor      |
| May 2021  | Dec 2022 | Design and Development of a Coconut Deshelling Machine   | Main supervisor      |
| May 2021  | Dec 2022 | Design and Development of Coconut Paring Machine   | Main supervisor      |
| May 2021  | Dec 2022 | Design and Development of a Machine for Bulk Processing of Cinnamon                            | Main supervisor      |
| May 2021  | Dec 2022 | Design and Development of an Areca Nut Harvesting Machine                                      | Main supervisor      |
| May 2021  | Dec 2022 | Design and Development of a Batik Wax Printing Machine   | Co-supervisor        |
| Feb 2020  | Sep 2021 | Design and Development of a Reverse Vending Machine for Plastic Waste                          | Main supervisor      |
| Feb 2020  | Sep 2021 | Design and Development of a Coconut Deshelling Machine   | Main supervisor      |
| Feb 2020  | Sep 2021 | Design and Development of a Cinnamon Peeling Machine   | Main supervisor      |
| Jan 2019  | Feb 2020 | Design and development of a low cost manually operated convertible bed for bedridden patients  | Main supervisor      |
| Jan 2018  | Jan 2019 | Design of an Automotive Turbocharger Remanufacturing System with a Viable Business Model       | Main supervisor      |

## SCHOLARLY AND PROFESSIONAL ACTIVITIES

### a) Engineering Consultancies

| Description  | Nature of work       | Organisation   | Date(s)                |
|--|----------------------|--|------------------------|
| Investigation of the fire incident at an aluminium extrusion powder coating plant.   | Consultant           | Alumex (pvt) Ltd.  | Oct 2024               |
| Sectoral committee on materials, mechanical systems & manufacturing engineering  | Committee member     | Sri Lanka Standards Institution (SLSI)                         | Jan 2023 - present     |
| Root Cause Analysis of Condenser Failure   | Consultant           | Araliya Beach Resort and Spa, Unawatuna, Sri Lanka             | Mar 2023- Jun 2023     |
| Assessment of implementation issues of the elephant fence project by Sri Lanka Inventors' Commission at the Mahaweli 'C' Zone.   | Technical Evaluator  | Mahaweli Authority, Sri Lanka.                                 | Mar 2022- May 2022     |
| Technical Support and advice to review Technical Evaluation for the Procurement of five brand new Ground Soppers.  | Consultant           | Sri Lanka Cricket, Colombo 07, Sri Lanka.                      | 18/02/2022- 14/03/2022 |
| Root Cause Analysis of Roller Press Failure  | Consultant           | Siam City Cement, Galle, Sri Lanka                             | Nov 2021- Feb 2022     |
| Facility Layout Planning and Productivity Improvement project at a steel furniture manufacturer.   | Consultant           | Alpha Industries Factory Complex, Sri Lanka                    | Oct 2021- Oct 2023     |
| One-day invited workshop on workstudy techniques for Foundry Industry in Sri Lanka to the Industrial Development Board (IDB) Staff.  | Main Resource Person | Industrial Development Board (IDB), Katubedda, Sri Lanka       | 03/03/2021             |
| One-day workshop on Machinery Maintenance for small and medium enterprises (Galle, Sri Lanka)  | Trainer              | Organised by Land O'Lakes International Development and USAID. | Feb 2019               |
| One-day training session on workstudy techniques   | Trainer              | Jacobi Carbon Lanka (Pvt) Ltd.                                 | Sep 2019               |
| Workstudy project in defining standard manning levels and standard operation times for the production process of a leading ice cream manufacturer.   | Consultant           | Ceylon Cold Stores (CCS) PLC                                   | Oct 2010 - Mar 2011    |
| A productivity Improvement project focused on optimum resource utilisation, fundamental redesign of operations, standardisation of resource requirement, identification of waste streams and their minimisation. | Consultant           | Keels Food Products PLC.                                       | Aug 2009 - Feb 2010    |
| Workstudy project undertaken for the Sri Lanka's largest soft drink manufacturer in defining work methods and setting standard manning levels and operating times.   | Consultant           | Ceylon Cold Stores (CCS) PLC.                                  | Feb 2008 – July 2008   |

b) **Academic Consultancies**

| <b>Description</b>  | <b>Nature of work</b> | <b>Organisation</b>                        | <b>Date(s)</b>                              |
|---|-----------------------|--|---|
| Reviewing the BSc Eng honours in Automotive Engineering   | Reviewer              | CINEC Campus                               | Oct 2024 - present                          |
| Reviewing the BSc Eng Mechanical Degree Programme for the academic year 2024                            | External Reviewer     | Kotelawala Defence University, Sri Lanka   | 01/2024 - Present                           |
| Department Industry Consultative Board (DICB) of Dept of Mechanical Engineering, KDU                    | Panel Member          | Kotelawala Defence University, Sri Lanka   | 17/10/2023                                  |
| Judging the technical sessions in Engineering of the 16 <sup>th</sup> International Research Conference | Judge                 | Kotelawala Defence University, Sri Lanka   | 07 <sup>th</sup> -08 <sup>th</sup> Sep 2023 |
| Panel discussion ‘Cross-Industry Dialogue’ for the managerial staff of the Silvermill Group.            | Panel member          | Postgraduate Institute of Management (PIM) | 18/08/2023                                  |
| Exam paper setting at GCE A/L Examination 2023 – (one paper)  | Examiner              | Department of Examinations, Sri Lanka      | 24/07/2023 -31/12/2023                      |

## c) Research grants

| Granting Agency   | Subject  | Grant (LKR) | Year           | Principal Applicant | Co-applicant(s)      |
|---|--|-------------|----------------|---------------------|----------------------|
| Senate Research Committee (SRC), University of Moratuwa | SRC Short Term Grant (SRC/ST/2024/16) – Ultrasonic Welding   | 600,000     | 2024           | JR Gamage           | -                    |
| National Research Council (NRC), Sri Lanka              | NRC Investigator Driven Grant(IDG) ( NRC 22-060) for the Development of novel value-added forms of processed cinnamon through automation | 4,550,000   | 2022-2024      | JR Gamage           | A.D.U.S. Amarasinghe |
| Senate Research Committee, (SRC) University of Moratuwa | SRC Short Term Grant 2020 (SRC/ST/2021/15) – Applicability of bulk cinnamon processing machines.   | 300,000     | 2021-2022      | JR Gamage           | A.D.U.S. Amarasinghe |
| Senate Research Committee (SRC), University of Moratuwa | SRC Long-Term Grant 2020/29 - Enhancing the sustainability of food packaging   | 2,799,500   | 2020 - present | JR Gamage           | HP Karunathilake     |
| Senate Research Committee (SRC), University of Moratuwa | SRC Short Term Grant (SRC/ST/2019/50) – Research student stipend component – Sustainable machining                                       | 300,000     | 2019-2021      | JR Gamage           | -                    |
| Senate Research Committee (SRC), University of Moratuwa | SRC Short Term Grant (SRC/ST/2019/32) – Research student stipend component – Automotive remanufacturing                                  | 300,000     | 2019-2020      | JR Gamage           | -                    |
| Senate Research Committee (SRC), University of Moratuwa | SRC Short Term Grant (SRC/ST/2019/23) – Research student stipend component – Sustainable machining                                       | 300,000     | 2019-2020      | HP Karunathilake    | JR Gamage            |
| Senate Research Committee (SRC), University of Moratuwa | SRC Capital Grant 2018 (SRC/CAP/18/04) –Capital items for sustainable machining research and stipend for researchers.                    | 3,990,000   | 2018-2020      | JR Gamage           | -                    |
| Senate Research Committee (SRC), University of Moratuwa | SRC Short-term grant (SRC/ST/2017/41)– Research student stipend component – Automotive remanufacturing                                   | 400,000     | 2017-2019      | JR Gamage           | -                    |

**d) Conference and event participation**

| <b>Conference or Event</b>  | <b>Organisation</b>  | <b>Role(s)</b>   | <b>Location</b>        | <b>Dates(s)</b>                                   |
|---|--|--|------------------------|---|
| Moratuwa Engineering Research Conference (MERCon 2024)  | Engineering Research Unit, University of Moratuwa  | 1. Publicity Chair<br>2. Co-Chair – Technology Management Track    | Uni of Moratuwa        | 08 <sup>th</sup> -10 <sup>th</sup> August 2024    |
| Engineering Research Unit (ERU) Symposium at the Research Week.   | Engineering Research Unit, University of Moratuwa  | Chair  | Uni of Moratuwa        | 05 <sup>th</sup> -06 <sup>th</sup> Dec 2023       |
| Moratuwa Engineering Research Conference (MERCon 2023)  | Engineering Research Unit, University of Moratuwa  | 1. Programme Co-Chair<br>2. Co-Chair – Technology Management Track | Uni of Moratuwa        | 09 <sup>th</sup> -11 <sup>th</sup> November 2023  |
| 16 <sup>th</sup> International Research Conference  | Kotelawala Defence University, Sri Lanka   | Judge  | Ratmalana, Sri Lanka   | 07 <sup>th</sup> -08 <sup>th</sup> Sep 2023       |
| 05 <sup>th</sup> International Conference on Business Research (ICBR 2022) - Track 04- Entrepreneurship & Education | Faculty of Business, University of Moratuwa  | Session Chair  |                        | 01 <sup>st</sup> Dec 2022                         |
| Moratuwa Engineering Research Conference (MERCon) 2022  | University of Moratuwa, Sri Lanka  | Programme Co-Chair   | Sri Lanka (Virtual)    | 27 <sup>th</sup> -29 <sup>th</sup> July 2022      |
| International Conference on Logistics and Supply Chain Engineering (ICLSE)  | University of Peradeniya, Sri Lanka  | Session Chair  | Sri Lanka (Virtual)    | 17 <sup>th</sup> Dec 2021                         |
| Moratuwa Engineering Research Conference (MERCon) 2021  | Engineering Research Unit, University of Moratuwa  | Track Co-chair (Tech Mgmt)<br>Published 5 papers                   | Sri Lanka (Virtual)    | 27 <sup>th</sup> -29 <sup>th</sup> July 2021      |
| Moratuwa Engineering Research Conference (MERCon) 2020  | Engineering Research Unit, University of Moratuwa  | Participant  | Sri Lanka (Virtual)    | 28 <sup>th</sup> -30 <sup>th</sup> July 2020      |
| 17 <sup>th</sup> Global Conference on Sustainable Manufacturing (GCSM 2019)   | Technische Universität Berlin (TUB), Germany and Tongji University, China  | Session chair, Participant, Author                                 | Shanghai, China        | 29 <sup>th</sup> -11 <sup>th</sup> October 2019   |
| 2018 International Conference of Production and Operations Management Society (POMS)                                | Production and Operations Management Society (POMS) and University of Peradeniya, Sri Lanka                      | Session chair & Participant  | Peradeniya, Sri Lanka  | 14 <sup>th</sup> – 16 <sup>th</sup> December 2018 |
| 48th CIRP Conference on Manufacturing Systems - CIRP CMS 2015   | Fraunhofer Joint Laboratory of Excellence on Advanced Production Technology and University of Naples Federico II | Presenter & Participant  | Ischia (Naples), Italy | 23 <sup>rd</sup> -26 <sup>th</sup> June 2015      |



|   |   |                         |                       |  |
|---|---|-------------------------|-----------------------|--|
| 12th Global Conference on Sustainable Manufacturing (GCSM 2014)                             | Technische Universität Berlin and Universiti Teknologi Malaysia   | Presenter & Participant | Johor Bahru, Malaysia | 22 <sup>nd</sup> – 24 <sup>th</sup> September 2014 |
| 11th Global Conference for Sustainable Manufacturing (GCSM2013)                             | Technische Universität Berlin, International Academy for Production Engineering (CIRP), and Collaborative Research Centre   | Presenter & Participant | Berlin, Germany       | 23 <sup>rd</sup> – 25 <sup>th</sup> September 2013 |
| 3rd International Conference on Engineering, Project, and Production Management (EPPM 2012) | University of Brighton  | Presenter & Participant | Brighton, UK          | 10 <sup>th</sup> -11 <sup>th</sup> September 2012  |
| 5 <sup>th</sup> Pacific Association for Quantity Surveyor Conference                        | Institute of Quantity Surveyors Sri Lanka (IQSSL) and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa | Presenter & Participant | Colombo, Sri Lanka    | 25 <sup>th</sup> - 26 <sup>th</sup> July 2011      |

#### e) Examinations of postgraduate degrees

| Degree sought | Project title/ Candidate   | Institution  | Role              | Date       |
|---------------|--|--|-------------------|------------|
| MBA           | Impact of leadership styles on exploratory and exploitative innovation activities in the Sri Lanka IT Industry - AY De Costa   | Dept. of Management of Technology, Faculty of Business, UoM, SL  | External Examiner | 15/07/2024 |
| MBA           | Framework for effective asset management of refurbished medical laboratory equipment – WAAS Ananda   | Dept. of Management of Technology, Faculty of Business, UoM, SL  | External Examiner | 09/07/2024 |
| MBA           | The impact of employee empowerment on individual employee performance in the IT Industry - JKDH Jayaneththi.   | Dept. of Management of Technology, Faculty of Business, UoM, SL  | External Examiner | 02/07/2024 |
| MBA           | A Study on the Impact of Mode of Operations & Error Traps on Occupational Injuries in Manufacturing Sector in Sri Lanka - WADD Sampath                                   | Dept. of Management of Technology, Faculty of Business, UoM, SL  | Chair             | 19/10/2023 |
| MEng          | Investigation of Tooltip Temperature and Surface Roughness in Turning of AISI 1045 Steel with Coconut Oil-Based Hybrid Nanofluid Under MQL Technology – W.V.N. Abeyweera | Dept. of Mechanical Engineering, Faculty of Engineering, UoM, SL | Chair             | 18/10/2022 |
| MEng          | Development of a Testing Procedure to Evaluate the Performance of Aviation Fire Containment Solutions in Lithium-Ion Battery Fires – G.H.V.P.D.J. Fonseka                | Dept. of Mechanical Engineering, Faculty of Engineering, UoM, SL | Chair             | 05/10/2022 |
| MBA           | A simulation-based model for cost reduction through workflow and layout improvements: A case study in a naval maintenance facility                                       | Dept. of Management of Technology, Faculty of Business, UoM, SL  | External Examiner | 26/08/2022 |

|       |   |  |                   |            |
|-------|---|--|-------------------|------------|
| MBA   | Framework for integrated facilities management contractors to optimise facilities operations - K.A.D.R.U. Kuruwitaarachchi  | Dept. of Management of Technology, Faculty of Business, UoM, SL            | External Examiner | 29/07/2022 |
| MBA   | Developing a deterministic mixed integer linear programming model for road tanker allocation – K.B.Y. Abeysekara  | Dept. of Management of Technology, Faculty of Business, UoM, SL            | Chair             | 11/07/2022 |
| PhD   | A Self Adaptive Operating Strategy for STEP-NC Compliant CNC Systems – M..Dharmawardhana  | Faculty of Engineering, University of Peradeniya, SL                       | External Examiner | 08/07/2021 |
| MEng  | Analysis of Yarn Parameters Influencing the Knittability of High-Grade Synthetic Yarns – D.M. Atapattu  | Dept. of Mechanical Engineering, Faculty of Engineering, UoM, SL           | Chair             | 12/06/2021 |
| MSc   | Failure investigation of bell 412 main rotor blade trim tabs and study of suitable adhesive material application with a new trim tab design – P.M.G.S.D. Dheerasinghe | Dept. of Material Science and Engineering, Faculty of Engineering, UoM, SL | Chair             | 03/07/2020 |
| MEng  | Performance Evaluation of White Coconut Oil Based Metal Working Fluid – K.C. Wickramasinghe   | Dept. of Mechanical Engineering, Faculty of Engineering, UoM, SL           | Internal Examiner | 02/07/2020 |
| MPhil | Enhance the Competitiveness of Small and Medium-scale local Manufacturing Sector with Sustainable Manufacturing Concepts – M.P.R.L.Peiris                             | Faculty of Engineering, University of Peradeniya, SL                       | External Examiner | 18/06/2020 |
| MBA   | An investigation on employability skills requirement of maintenance technicians - K.M.H.N. Fernando   | Dept. of Management of Technology, Faculty of Business, UoM, SL            | Chair             | 04/05/2020 |
| MBA   | Investigating the Process Efficiency of a Sri Lankan Trailer Manufacturing Company- HADDS Priyadarshana   | Dept. of Management of Technology, Faculty of Business, UoM, SL            | External Examiner | 02/05/2018 |

#### f) Reviewer (for Journals and Conferences)

| Journal / Conference   | No of Papers | Dates                                       |
|--|--------------|---|
| Moratuwa Engineering Research Conference (MERCon 2024)                               | 3 papers     | 08 <sup>th</sup> -10 <sup>th</sup> Aug 2024 |
| Moratuwa Engineering Research Conference (MERCon 2023)                               | 6 papers     | 9 <sup>th</sup> -11 <sup>th</sup> Nov 2023  |
| Journal of Cleaner Production  | 4 papers     | 2023-2024                                   |
| SLIIT International Conference on Engineering and Technology                         | 1 paper      | 2023  |
| International Journal of Sustainable Manufacturing (IJSM)                            | 1 paper      | 2022  |
| Sustainability Open Access Journal   | 1 paper      | 2022  |
| Moratuwa Engineering Research Conference (MERCon 2021)                               | 3 papers     | 2021  |
| International Journal of Sustainable Engineering                                     | 1 paper      | 2021  |
| International Conference of Production and Operations Management Society (POMS-2018) | 1 paper      | 2018  |
| The Engineer by IESL   | 2 papers     | 2020  |

## g) Administrative and other duties/positions

| Organisation   | Post/ Nature of duty   | Dates                 |
|--|--|-----------------------|
| University of Moratuwa   | Chairman - Election Committee for the Faculty of Engineering Student Union (EFSU) 2023/2024 formation.   | 08/09/2023-29/02/2024 |
| Kotelawala Defence University  | External Reviewer for Mechanical Engineering Degree Programme.   | 01/2024 - present     |
| Engineering Faculty Students Union, University of Moratuwa                   | Senior Treasurer (overseeing events and initiative, and finance handling)  | 11/2022 - 09/2023     |
| Institution of Mechanical Engineers (IMechE), Southern Asia Region (SAR)     | SAR Secretary (organising and coordinating membership development and other professional activities in the region, India, Bangladesh, and Sri Lanka)                       | 06/2020-present       |
| Institution of Mechanical Engineers (IMechE), Sri Lanka Group                | Young Members' Chair (Country-level event organisation (e.g. COVID Design Challenge 2020, Speak Out for Engineering Competition), Overseeing Eight IMechE Student Chapters | 07/2018-present       |
| Institution of Mechanical Engineers (IMechE), Sri Lanka Group                | Acting Secretary   | 05/2019-08/2020       |
| Institution of Mechanical Engineers (IMechE), University of Moratuwa Chapter | Chapter Counsellor (Initiating IMechE Annual Awards since 2017, Supporting 'Speak Out for Engineering (SOE)' competition – country winners for 4 consecutive times)        | 07/2017 – 10/2020     |
| Formula Student – University of Moratuwa                                     | Project Coordinator for two teams – TeamSHARK Racing (CV – FSUK 2016 & 2018 ); FalconeE Racing (EV – FSBharat 2024)  | 06/2017-present       |
| Dept of Mechanical Engineering, University of Moratuwa                       | Course Coordinator – MEng/PG Diploma in Manufacturing Systems Engineering Course   | 02/2021 - present     |
| Dept of Mechanical Engineering, University of Moratuwa                       | Quality Coordinator (Member of Faculty Quality Committee)  | 05/2018-06/2021       |
| Dept of Mechanical Engineering, University of Moratuwa                       | Overall Coordinator – IESL Accreditation   | 05/2019-08-2019       |
| University of Moratuwa   | Chair - Technical Evaluation Committee of Developing a Fabric Inspection Machine funded by NRC   | 09/2019 - Present     |

## ACADEMIC AWARDS AND HONOURS

| Award  | Institution/Event  | Year |
|--|--|------|
| Best Paper Award- Mechanical Engineering Systems Track | Moratuwa Engineering Research Conference 2024, University of Moratuwa, Sri Lanka | 2024 |
| Best Paper Award – ERU Research Symposium 2023         | University of Moratuwa, Sri Lanka  | 2023 |
| Outstanding Research Award with Distinction            | University of Moratuwa, Sri Lanka  | 2022 |
| Outstanding Research Award                             | University of Moratuwa, Sri Lanka  | 2021 |
| Outstanding Research Award                             | University of Moratuwa, Sri Lanka  | 2020 |
| Outstanding Research Award                             | University of Moratuwa, Sri Lanka  | 2019 |
| Young Member of the Year- 2019 (Sri Lanka)             | Institution of Mechanical Engineers (IMechE), Southern Asia Region               | 2019 |
| Best Poster Award for School of Engineering            | 13 <sup>th</sup> Research Colloquium, Glasgow Caledonian University, UK          | 2016 |
| Postgraduate Project Support Funding Award             | Research and Development Management Association (RADMA)                          | 2016 |
| PhD Scholarship  | Glasgow Caledonian University  | 2013 |
| Competent Leader (CL)                                  | Toastmasters International   | 2011 |

## PUBLICATIONS

### a) Journal articles

- Jagoda, S. U. M., **Gamage, J. R.**, & Karunathilake, H. P. (2023). Environmentally sustainable plastic food packaging: A holistic life cycle thinking approach for design decisions. *Journal of Cleaner Production*, 400, 136680. <https://doi.org/10.1016/j.jclepro.2023.13668>
- Jayawardane, H., Davies, I. J., **Gamage, J. R.**, John, M., & Biswas, W. K. (2023). Sustainability Perspectives—a Review of Additive and Subtractive Manufacturing. *Sustainable Manufacturing and Service Economics*, 100015. <https://doi.org/10.1016/j.smse.2023.100015>
- Jayawardane, H., Davies, I.J., **Gamage, J.R.** et al. Additive manufacturing of recycled plastics: a ‘techno-eco-efficiency’ assessment. *Int J Adv Manuf Technol* **126**, 1471–1496 (2023). <https://doi.org/10.1007/s00170-023-11169-8>
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