

THIMIRA GALHENAGE

Mechanical and Manufacturing Engineering (BSc. Hons. Eng)

 +94 76 533 7424

 thimiragalhenage@gmail.com

 linkedin.com/in/thimira-galhenage-004b41172

 Dehigasmulla Road, Yattowita, Matugama



Mechanical Engineering graduate with experience in Industrial Design, Control & Automation Systems, Lean & Six Sigma principles, Predictive Maintenance Management, and Project Management. Skilled in SolidWorks, AutoCAD and MATLAB with additional proficiency in PLC programming and Robot Programming. Hands-on experience in developing automation solutions and designing industrial machinery. Known for innovative problem-solving, teamwork and a strong commitment to delivering efficient, practical engineering solutions.

WORK EXPERIENCE

Student Instructor - Faculty of Engineering, University of Ruhuna

2025 Aug - 2025 Oct

- Assisted undergraduate students in understanding engineering drawing fundamentals, CAD practices, and technical drafting techniques. Guided students through exercise and assignment sessions, supporting their drawing accuracy and overall CAD competency.

Trainee Mechanical Engineer - Global Engineering, Ansell Lanka (Pvt) Ltd

2024 Nov - 2025 Mar

- Gained hands-on experience in automation and manufacturing processes, including CAD design, PLC programming, and robot programming.
- Designed an automated Liquid Texturing Tank using SolidWorks equations by entering specific parameters.
- Developed, fabricated, and installed a flow control system for liquid texturing tanks to address high-pressure issues while maintaining compression ratios.
- Performed line balancing on the Smart Dip Production Line using stations, buffers, and VFD controlled conveyors.
- Designed components and programmed PLCs for units in the new Printing Machine project.
- Designed and fabricated a new Glove Former for Ansell Vietnam by analyzing product requirements.

Trainee Mechanical Engineer - Hayleys Fabric PLC

2023 Oct - 2024 Jan

- Hands-on exposure to industrial maintenance, condition-based monitoring, boiler/utility systems, MTTR/MTBF analysis, and engineering documentation.
- Designed a bucket elevator to increase biomass storage capacity and operational efficiency.
- Designed and fabricated an oil filter machine to clean and improve furnace oil quality.
- Designed an automated hopper weighing system to monitor biomass usage accurately.

UNDERGRADUATE PROJECTS

- **Dip Line Automation Project (Ansell Textile Lanka) - Final Year Capstone Project**

Developed an automated glove-dipping process with robotic and PLC integration to reduce headcount and enhance productivity, consistency and labour ergonomics. Applied line balancing, custom robot tooling, simulations and pneumatic systems to optimise performance.

- **Smart Weighing Bin Design Project - Final Year Design Project**

Designed an automated weighing bin with load-cell integration, microcontroller control and a feedback-based dispensing mechanism. Developed CAD models and simulations to improve accuracy and flow efficiency for supermarket bulk-food applications.

- **Glove packing automation project (Ansell Lanka) - Rextro University exhibition project**

Collaborated with Ansell to develop a glove-packing automation demonstration for the Rextro University exhibition. Utilized PLC programming, robot and SCARA arm programming, 3D and 2D vision systems and AMR technology to showcase industrial automation solutions.

- **Aluminium Profile Inspection Machine Project**

- **Salinity Barrier Design Project**

- **Automated Bra Cup Moulding Project**

ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

- Winner - Techno 2025 CAD Eager Competition, organized by IESL
- Team Leader (Marketing) - Mexcellence 2025, University of Ruhuna
- Media Secretary - IMechE Student Chapter, University of Ruhuna
- Sports Enthusiast - University of Ruhuna

SKILLS

- Mechanical & Design Software - SolidWorks, Autodesk Inventor, AutoCAD, Ansys
- Automation & Analysis Tools - MATLAB, PLC Programming (OMRON), Robot Programming (Fanuc)
- Maintenance & Inspection - Condition-Based Monitoring, Nondestructive Testing (NDT), Vibration Analysis
- Process Improvement & Lean Tools - Lean Principles, Six Sigma, 5S, Kaizen
- Productivity & Documentation - MS Office, Smartsheet, Google Workspace
- Work Management Skills - Problem-solving, critical thinking, Communication, teamwork, time management

REFERENCE

Mr. Gogulan Amirthakulasingam

Associate Manager,
Department of Global Engineering,
Ansell Lanka (Pvt) Ltd.
Biyagama Export Processing Zone, Biyagama Malwana.

Phone : +94 74 291 0842

Email : gogulan.amirthakulasingam@ansell.com

Mr. Arjuna Dayaratne

Deputy General Manager,
Department of Engineering,
Hayleys Fabric PLC,
Narthupana Estate, Neboda, Sri Lanka.

Phone : +94 77 756 2560

Email : arjuna.dayaratne@hayleysfabric.com

I hereby declare that the information provided above is true and accurate to the best of my knowledge.