

YASITH UDAGEPOLA

ELECTROMECHANICAL ENGINEERING TECHNOLOGY GRADUATE

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PROFESSIONAL SUMMARY

Electromechanical Engineering Technology Graduate from the University of Ruhuna with hands-on industrial internship experience in industrial utilities, PLC programming, and pneumatic/hydraulic system maintenance at Ferrentino Tyre Corporation. Proficient in automation control, mechanical design (SolidWorks), and electrical troubleshooting. Focused on optimizing plant machinery performance, execution of preventative maintenance, and minimizing operational downtime in continuous manufacturing environments.

TECHNICAL & PROFESSIONAL SKILLS

Automation & Electrical:	PLC & Ladder Logic Programming, Pneumatic & Hydraulic Systems, Electrical Machinery Maintenance, PCB Designing, Sensor Integration (Load Cells, Proximity, Humidity).
CAD & Software:	SolidWorks (3D Modeling & Manufacturing), Computer-Aided Design (CAD), Arduino IDE, C/C++ Programming.
Workshop & Practical:	Soldering & Welding, Automobile Maintenance, Equipment Troubleshooting, Electrical Repairing.
Soft Skills & Languages:	Critical Thinking, Root Cause Analysis, Time Management, Teamwork, Public Relations Languages: English, Sinhala.

WORK EXPERIENCE

Engineering Intern - Machine Maintenance & Utilities

Jun 2024 – Dec 2024

Ferrentino Tyre Corporation (Pvt) Ltd – Poruwa Danda, Sri Lanka

- Gained direct operational and preventative maintenance experience with critical plant utilities, including air compressors, steam boilers, power generators, RO water treatment plants, and CNC machinery.
- Executed routine machine maintenance, mechanical modifications, and rapid troubleshooting on pneumatic and hydraulic control systems across active production lines to minimize downtime.
- Adhered strictly to industrial safety regulations, LEAN manufacturing practices, 5S standards, and maintenance planning protocols.
- Maintained precise technical maintenance records and collaborated with multidisciplinary engineering teams for prompt root-cause analysis and equipment repairs.

EDUCATION

Bachelor of Engineering Technology (Honors) - BET (Hons)

July 2021 – Dec 2025

Specialized in Electromechanical Engineering Technology — University of Ruhuna, Matara, Sri Lanka

Key Modules: Circuit Analysis, Electromagnetism, Mechanical Design, Control Systems, Power Electronics, Pneumatics & PLC Automation.

ACADEMIC & ENGINEERING PROJECTS

Design & Development of an Efficient Automated Mini Grain Dryer Machine — University of Ruhuna

- Contributed to designing an automated mini grain dryer aimed at enhancing drying efficiency and crop quality.
- Conducted morphological analysis, identified functional requirements, and selected optimal subsystem integrations.
- Collaborated on automation control, component selection, and temperature-moisture feedback evaluation to reduce manual labor.

Prototype Road Access Control Gate using Load Cell Technology

- Designed and implemented a weight-based automated gate access control system utilizing load cells (HX711 integration) and microcontrollers.

Arduino-Based Humidity Meter & Train Ticket Booking System

- Developed an Arduino-driven digital humidity monitoring system with real-time sensor feedback and programmed a train ticket booking application.

TRAINING & ACTIVITIES

- 3D Modeling & Manufacturing:** 6-Week Certification, The American Corner Sri Lanka.
- Active Member:** University Robotics Club participating in automation and hardware design projects.

NON-RELATED REFERENCES

Dr. Hashini Vitharana

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Dr. Harshadeva Gunawardana

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