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- <https://thisalabeyrathna.github.io/my-portfolio/>

SKILLS

Professional insight

- Design & Development
- Programming & Configuration
- Testing & Commissioning
- Maintenance & Troubleshooting
- Automation

Tools & Technology

- Ladder Programming
- HMIs
- SOLIDWOKRS, AutoCad
- Arduino IDE
- CNC Simulator(G code)
- JAVA, Python, C
- MATLAB

Soft Skills

- Project Management
- Teamwork
- Time Management
- Leadership
- Critical Thinking

LANGUAGES

- English
- Sinhala

THISAL ABEYRATHNA

PROFILE

Experienced in industrial automation, PLC programming, IoT, and control systems. Skilled in system design, troubleshooting, and sensor integration. Proficient in automation software, HMI design, and data communication. Passionate about innovation, problem-solving, and advanced control strategies.

EDUCATION

- Bachelor of Engineering Technology (BET) Honours Degree**
University of Kelaniya
2022 - PRESENT
Specializing in Industrial Automation & Robotics
- PLC and Automation Certificate Course**
SLIR (Sri Lanka Institute of Robotics)
2024 - PRESENT

PROJECTS

Smart Alcohol Detection and Engine Locking System

Developed a system to detect drunk driving, automatically locking the engine and sending real-time location and transport notifications for safety. [\(GitHub: Project Link\)](#)

Vertical Reciprocating Conveyor System

Designed and developed a Vertical Reciprocating Conveyor System prototype, integrating automation techniques for efficient material handling. Created a detailed FluidSIM diagram for pneumatic and electrical circuit simulation, ensuring optimal system performance and functionality.

Automatic Bottle Filling & Capping, and Packing Machine Using PLC

Designed and programmed the ladder logic for an Automatic Bottle Filling, Capping, and Packing Machine using PLC.

Registration Form GUI in Java using Swing

Developed a Registration Form GUI in Java using Swing with input validation, exception handling, real-time feedback, and a responsive interface for efficient data handling. [\(GitHub: Project Link\)](#)

PUBLICATIONS

- L. D. M. Parindya, R. M. L. Methnuwan, G. D. L. P. H. Garusinghe, M. W. B. Sanju, H. M. T. N. Abeyrathna, K. P. B. Wijerathna, and A. Jeewandara, "Smart alcohol detection and engine locking system," in Proceedings of the 4th Undergraduate Research Symposium, Faculty of Computing and Technology, University of Kelaniya, Sri Lanka, Nov. 2024. [Online]. Available: [\(Link\)](#)

REFERENCE

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