

H.L.Y. INDUWARA

Instrumentation & Automation Technology (Undergraduate) University Of Colombo

+94 76 126 5491 • yohanhettiarachchi34@gmail.com • [LinkedIn](#) • Laxapana, Hatton

Summary

As an undergraduate in Instrumentation and Automation Technology, I aim to apply my technical knowledge and practical skills in automation, gain valuable industrial experience, contribute to innovative projects, and develop professionally to become a proficient automation engineer.

Education

Faculty of Technology, University of Colombo

Colombo , Sri Lanka

Bachelor of Engineering Technology (Hons) in Instrumentation and Automation (UG)

2023 – Present

G.C.E (Advanced Level)

Technology stream | Passed with 1A 1B and 1C | z score = 1.8610

2022

Projects

Design Mini Project

Multifeatured Smart fan

2024

- Developed a smart fan that measures temperature and humidity, controls speed via a mobile app, enabling automated, remote operation for comfort and energy efficiency.

Microcontroller Design Projects

Line follow robot car

2025

- Built a robot car with ATmega328P and IR sensors for efficient, accurate line tracking, demonstrating automation, embedded control, and real-time response.

Data Acquisition Systems

Smart Greenhouse Data Acquisition System

2025

- Developed a Python-Arduino data acquisition system for real-time sensor data display, COM port connection, and actuator control.

Introduction to Robotics

Obstacle avoiding and object removing robot

2025

- A robot that detects, lifts, and removes boxes using sensors and motor control, automating tasks to improve efficiency and reduce human effort.

Professional skills

- Microcontroller Programming (Atmel Studio, Arduino IDE)
- FPGA Programming (Quartus-II)
- Electronic Circuit Simulation (Simul-IDE, Cadence-capture SIS)
- SolidWorks / AutoCAD Designing
- Web Development (HTML, CSS, PHP)
- Basic knowledge about PLC

Memberships

- Membership and committee member of innovation club, Faculty of Technology, University Of Colombo.
- "Mathin Thora Hetak – Phase 03" (Leo Club): Supported event coordination and participant engagement for the community program held at Prince of Wales' College, Moratuwa.

Languages

- English – Intermediate
- Sinhala – Native

References

Dr. P. L. C. S. Silva
Senior Lecturer
Department of Instrumentation and Automation
Technology
University Of Colombo
Email : chathurika@iat.cmb.ac.lk

Dr. P. A. G. M. Amarasinghe
Lecturer
Department of Instrumentation and Automation
Technology
University Of Colombo
Email : gihan@iat.cmb.ac.lk