RAVINDU MADUSHAN

📍 171/1 Millathe Ihala, Kirindiwela

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SUMMARY

I am a results-driven undergraduate specializing in Instrumentation and Automation Engineering, with practical expertise in embedded systems, IoT, and real-time data acquisition. Passionate about process optimization and efficiency, I excel in dynamic, collaborative environments, applying my technical skills to deliver innovative, impactful solutions to complex challenges.

EDUCATION

University of Colombo   **Jun 2022 - Present**

- Bachelor of Engineering Technology Honours in Instrumentation and Automation

RELAVANT COURSEWORK

- Robotics
- Sensors and Transducers
- FPGA
- Technical Drawing and CAD
- Analog and Digital Electronics
- Electronic Circuit Simulations

IMBS Green Campus   **Jun 2023 - Present**

- Diploma in Human Resource Management

SLIIT University   **08/2022 - 02/2023**

- Web Development Program
  refer certificate

G.C.E (Advanced Level) - 2020   **2020**

- Technology stream | Passed with 1A and 2B's | Kirindiwela Central College - Kirindiwela

PROJECTS

Automatic Whiteboard Cleaner   **Jul 2023**
- Created a Automated Whiteboard Cleaner for erase Whiteboard Automatically using Metal Sensor, IC's, and Motors
  refer it

Microcontroller-based temperature monitoring system   **Aug 2024**
- Created Basic Temperature Monitor with Alarm and Display Modes using ATMEGA 328p As Second Year Mini Project
  refer it

6 D.O.F Industrial Robotic arm Manipulator   **(Ongoing)**
- Developing a 6-DOF industrial robotic arm manipulator focused on high-precision automation. This project involves designing and programming joint control systems to enhance flexibility and accuracy for complex tasks, integrating advanced kinematics, and ensuring adaptability for various industrial applications.

Automated 3D Printing Platform   **(Ongoing)**
- Leading the development of an automated 3D printing platform that enables seamless model uploads and automatic pricing, focused on streamlining workflows and enhancing accessibility for efficient 3D printing services.

TECHNICAL SKILL

- Languages : C/C++ (intermediate), Python (intermediate) , VHDL , HTML/CSS
- Developer Tools : VS Code , altera quartus ii , Microchip Studio
- 3D Modeling : SolidWorks, AutoCAD
- Others : Home Electrical wiring

ONLINE CERTIFICATE COURCES

- introduction to Mechatronic Systems
- Basics of Machine Learning

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Volunteer

- Worked As a Member of the Live Broadcasting Team of the Official Media Unit of the faculty (Techno Media) in the 7th Annual Research Symposium of the Faculty of Technology, University of Colombo (2023)
- Worked As the Member of the Live Broadcasting Team of Official Media Unit of the faculty (Techno Media) in "Swarabhisheka" Interfaculty Music Instruments Competition organized by Arts Council, University Of Colombo (2024)
- Worked As the Member of 7th Annual Research Symposium of the Faculty Of Technology, University Of Colombo

University

- Sound Department Head - Techno Media (The Official Media Grid of Faculty of Technology , University of Colombo)

School

- Junior Prefect 2015/2016 - Kirindiwela Central College , Kirindiwela

ADDITIONAL INFORMATION

- Sinhala (Native)
- English (Intermediate)

REFERENCES

Dr. K. D. R. N. Kalubowila
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