
Mayuka Hiranya

Mayuka Hiranya Premathilaka

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146, Kalumada, Divulapitiya, Sri Lanka

Background

Mechanical Engineering undergraduate who is interested in energy engineering, automobiles, mechanics, problem solving, research, creative thinking, control systems, and project management. Likes to have new experiences and solve real-world challenges. Passionate about energy engineering and control systems. Eager to learn and adapt quickly to new environments.

Education

- **University of Moratuwa** – B.Sc. in Mechanical Engineering (Honours)
March 2023 – Present
CGPA: 3.48/4.0
- **Bandaranayake College** – Gampaha, Sri Lanka
January 2013 – February 2022
GCE Advanced Level - Physical Science Stream; Z-Score 2.2498
Combined Mathematics, Physics, Chemistry

GCE Ordinary Level - 9A's
with Civics, Music, ICT

Technical Knowledge

- CAD Tools: SolidWorks, AutoCAD, Fusion 360
- Simulation & Analysis: ANSYS, MATLAB/Simulink, Pneumatic Stimulation (FluidSim)
- Programming: MATLAB, Python, C++, Arduino
- Control Systems & Mechatronics: Sensors & Actuators, PID Control
- Tools & Documentation: Microsoft Excel, Microsoft Office

Soft Skills

- Leadership and Team Work: MoraSpirit
 - Languages: English and Sinhala
 - Communication: Effective verbal and written communication
 - Time Management: Prioritizing tasks and meeting deadlines
 - Adaptability: Quick learner and flexible to change
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Leadership Experience

- **Member - Corporate Development Pillar - MoraSpirit Initiative**
Mora Spirit is the largest University Sport Media Organization in Sri Lanka
OC Member - Inter University Games (Contributed to attaining Bronze Partnership)
Co-Chair - Dynamique 24 (Contributed to attaining two Silver Partnership)
OC Member - SpiritX (Contributed to attaining Platinum Partnership, Title Partnership)
Chair - SLUG XV
2024 – Present
- **Committee Member-IMEchE Student Chapter of University of Moratuwa**
2024 – Present
- **Committee Member-UMMES**
Finance Lead-Mechanized25
2024 – Present
- **Volunteer-Rotaract Club of University of Moratuwa**
2024 – Present
- **Tutor**
Part time GCE A/L Combined Mathematics Tutor
2022 – Present
- **Instructor**
Full Time GCE A/L Combined Mathematics , Physics Instructor
Susipwan Higher Education Pvt.Ltd
2022 – 2023

Projects

- **Reverse Engineering of an Electric Kettle:** The Reverse Engineering of an Electric Kettle project aims to deconstruct and analyze the design, components, and functionality of a common household electric kettle.
Feb 2025 - Apr 2025
- **Portable Mini Tool Holder:** Designed and built a Portable Mini Tool Holder using welding, sheet metal forming, and woodworking.
Feb 2024 - Sep 2024
- **Automated Drain Cleaning Robot:** Developed an Automated Drain Cleaning Robot to address labor-intensive and inefficient drain maintenance, especially in university environment.
Feb 2024 - Aug 2024

References

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| • Nishantha Balapitiya
Assistant Manager
Sourcing,NIKE MAS KREEDA
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Attorney at Law
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Declaration

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