

K.L.Dilan Thusith Premarathna

Dedicated Materials Technology graduate from Rajarata University of Sri Lanka with a specialization in polymers, metallurgy, and ceramics. Adept at analyzing the degradation of materials and conducting rigorous material testing to ensure quality and performance. A collaborative team player with a proven ability to manage complex tasks under pressure, I am committed to continuous learning and making a significant impact in the field of materials engineering.

Contact

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Linkedin

[Dilan Premarathna](#)

Soft Skills

- Leadership
- Team work
- Management Skills
- Multitasking
- Problem Solving
- Computer Literacy
- Project Management

Hard Skills

- MS Office package
- Solid works
- Adobe Photoshop
- Adobe Premiere pro
- Graphical Programming
- Solid works
- AutoCAD

Sports

- Karate
- Swimming
- Volley Ball
- Rugby

Education

○ 2021 - 2025 DEC 21

GRADUATE - RAJARATA UNIVERSITY OF SRI LANKA

Bachelor of Engineering Technology (Hons.) in Materials Technology

Key Subjects : Polymer . Metallurgy , Ceramic , Degradation of Materials , Thermodynamics for Materials Technology , Non Destructive Testing of Materials , Workshop Technology

○ 2017 - 2019

MAHINDA RAJAPAKSHA COLLEGE HOMAGAMA

GCE Advanced Level

○ 2005 - 2018

DHARMAPALA COLLEGE ARAWWALA

GCE Ordinary Level

Short Courses

○ **The Foundation in Information Technology (FIT)**

University of Colombo

○ **Certificate Course in English (External)**

Faculty of Humanities and Social Sciences, University of Sri Jayawardhanapura

[\(Certificate\)](#)

○ **Foundation of Project Management**

Faculty of Engineering, University of Moratuwa

[\(Certificate\)](#)

○ **Root Case Analysis (Certificate Course)**

Udemy

[\(Certificate\)](#)

○ **Six Sigma (Certificate Course)**

Udemy

[\(Certificate\)](#)

○ **FMEA : Failure, Modes, Effects, Analysis (Certificate Course)**

Udemy

[\(Certificate\)](#)

Language

- English
- Sinhala
- Tamil

References

Samantha A Gamage
BSc Eng. (Hons), MBA, AMIE (SL)
Senior Manager – Plant &
Machinery,
Maga Engineering (Pvt) Ltd.
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Eng. Damith Weerasinghe M.Sc
(UoM), B.Sc Eng (UoM)
Lecturer
Department of Materials
Technology Faculty of Technology
Rajarata University of Sri Lanka
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Work Experience

- January 2020 - July 2021
QAT(Quality Assurance Trainee)
Global System Solutions International (Pvt) Ltd
- June 2024 - December 2024
Undergraduate Internship
Hayleys Fabric PLC

Research & Projects Involved

- Undergraduate Research
Fabrication & Characterization of Magnetite Nano-Particles for Bio Medical Applications (phase 1)
Developed a sustainable top-down synthesis protocol for producing high-purity magnetite nanoparticles from natural mineral sands for biomedical applications. Successfully optimized a hybrid ball-milling process, reducing particle size by over 96% while maintaining phase stability. Conducted material characterization using XRD and Dynamic Image Analysis to verify nanostructured properties.
[\(Photos\)](#)
- Anti-Gravity Stool (Tensegrity Structure) Completed
Led the end-to-end development of an 'Anti-Gravity' stool using a tensegrity structural system. Responsible for material selection, fabrication, and testing to ensure equilibrium and weight-bearing capacity. This project successfully merged physics principles with functional industrial design, demonstrating advanced problem-solving and prototyping skills.
[\(Photos\)](#)

EXTRACURRICULAR ACTIVITIES

- “SIPMANSALA” Program (2023 & 2024)
Held the role of Organizing Committee Member within the Student Union at the Faculty of Technology, Rajarata University of Sri Lanka.
 - Instituted and facilitated the repair of a challenging school infrastructure, alongside provision of essential school equipment for the benefit of its students (2023)
 - Orchestrated a guidance seminar for G.C.E. O/L and A/L students on Technology stream subjects and university admissions, while developing and distributing original model papers to improve exam performance. (2024)
[\(Photos\)](#)
- “EXTRU” (2024-2025)
Held the role of Organizing Committee Member within the Student Union at the Faculty of Technology, Rajarata University of Sri Lanka.
 - Exhibition of new innovations
 - Participated in workshops tailored for A/L students
[\(Photos\)](#)
- MEMBER OF ASSOCIATION OF MATERIALS TECHNOLOGY (AMT - RUSL)