LASITH DISSANAYAKE

MATERIALS SCIENCE & ENGINEERING (UG)

lasithdissanayake.official@gmail.com
No. 29/7A, Sirimaluyana, Boruppa, Gunnepana.
+94 770 212 604

EDUCATIONAL BACKGROUND

Materials Science & Engineering (UG)
University of Moratuwa
2021 - Present

- CGPA - 3.22
- Focusing on Polymer Engineering (Focus Area)
- Reading for a Minor in Pattern Recognition

Kingswood College Kandy
2005 - 2018

- GCE O/L Examination - 8A, 1B (English Medium)
- GCE A/L Examination - 2A, 1B (Sinhala Medium)

EXTRA-CURRICULAR ACTIVITIES

Web Manager
Society of Materials Engineering Students
2023, September - Present

Director of Public Relations Piller
Mora Esports Community
2022 - Present

Assistant Piller Head of Public Relations
Mora Esports Community
2023-2021

Committee member of the School's Astronomy Club, Olympiad Club and the Science Society

Member of the College Chess, Cricket & Athletic teams

linkedin.com/in/lasith-dissanayake-430853192/

https://github.com/DissanayakeLYB

PORTFOLIO WEBSITE

dissanayakelyb.github.io/LasithDissanayake.github.io/

SKILLS

- Leadership
- Teamwork
- Problem Solving
- Communication skills
- Prompt Engineering
- 2D Drawings (AutoCAD)
- 3D Modeling (Blender, Solid Edge, SketchUp)
- Programming (Python, C++, C#, MATLAB)
- Machine Learning
- Web Development (HTML, CSS, JS)

VOLUNTEER WORK

International Service Director
Rotaract Club of Kandy
2021-2022

Treasurer
Rotaract Club of Kandy
2020-2021

PROJECTS INVOLVED

Gear Box Design - 2023 (In progress)

Collaborative project involving the design and simulation of a functional gearbox for a vehicle model using Solid Edge software.

Module : Machine Design
Supervised by : Dr. Eranga de Silva (Senior Lecturer - ahteranga@uom.lk)

Investigating a Diffusion Based Approach for Time Since Death Estimation - 2023

Investigated time since death estimation through diffusion-based analysis, using potassium concentration differences in vitreous humor. I developed a Python program to correlate potassium reduction with the time since death.

Module : Kinetics of Materials
Supervised by : Dr. D.A.S. Amarasinghe (Senior Lecturer - amarasinghes@uom.lk)

Exercise Machine Design - 2023

Contributed to the enhancement of a cyclic exercise machine's productivity and market value through innovative part designs. I utilized Blender for 3D modeling.

Module : Fundamentals of Machine Elements Design
Supervised by : Prof. Nirosh Jayaweera (Senior Lecturer - niroshj@uom.lk)

Aluminium Extrusion Die Design - 2023

Collaborative effort to design an aluminium extrusion die, considering factors such as die ratio, tongue ratio, swelling, pressure, temperature control, and material flow. I created 3D designs and animations using Blender.

Module : Ferrous Metals & Alloys
Supervised by : Prof. G.I.P. de Silva (Senior Lecturer - niroshj@uom.lk)
Mr. G.S. Dhananjaya (Assisstant Lecturer)

Solution to Eutrophication - 2022

Led a team in the design of floating equipment to mitigate water stagnation and combat eutrophication in endangered lakes, targeting the pre-eutrophication period.

Module : Fundamentals of Engineering Design and Workshop Practice
Supervised by : Prof. G.A. Sewwandi (Senior Lecturer - galhenagea@uom.lk)

REFERENCES

Mr. A.M.P.B. Samarasekara
Department of Materials Science and Engineering
Faculty of Engineering
University of Moratuwa
Moratuwa
bandu@uom.lk

DR. D. Attygalle
Department of Materials Science and Engineering
Faculty of Engineering
University of Moratuwa
Moratuwa
dattyga@uom.lk