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 3.39
- Focusing on Metallurgy
- Reading for a Focus Area in Polymer

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 - 2023

Assistant Piller Head of Public Relations Mora Esports Community

2022-2021

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/



https://github.com/DissanayakeLYB

PORTFOLIO WEBSITE

https://lasith.netlify.app/

SKILLS

- Leadership
- Teamwork
- Problem-Solving
- Communication skills
- 2D Drawings (AutoCAD)
- 3D Modeling (Solid Edge, Solidworks)
- 3D Animations (blender)
- Programming (Python)
- Machine Learning

QUALIFICATIONS

- Lean Six Sigma Black Belt
- Lean Specialist
- Minitab Expert

VOLUNTEER WORK

International Service Director Rotaract Club of Kandy

2021-2022

Treasurer Rotaract Club of Kandy 2020-2021

PROJECTS INVOLVED

Gear Box Design - 2023

A 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