Malik Priyashan

Mechanical Engineering Undergraduate at University of Moratuwa

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- Male
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EDUCATION

- GCE Advanced level - Physical Science Stream - 3As (2021/2022) Z-Score - 2.2736, District Rank - 38, Island Rank - 434
- G.C.E. Ordinary Level: Passed with 9 A's
- Diploma in English : Open University Matara.
- School : Rahula College, Matara

SKILLS

- Technical: SolidWorks, AutoCAD, Fluid Simulation (FluidSIM), ANSYS
- Programming: C++, Python,java,SQL, JavaScript, TypeScript
- Frame works: Next.js, React.js
- Database technologies: MongoDB, MySQL, Firebase
- Tools & Platforms: GitHub, Unity (2D), Vercel, Figma,Nodered, Wokwi

WORKSHOP EXPERIENCES

- Machine Operations: Experience with lathe, milling, and drilling machines for basic machining tasks.
- Woodworking: Experience in milling, cutting, and using woodworking machines for fabrication work.
- Welding and Forging: Experience in welding processes and basic forging techniques for metal joining and shaping.
- Sheet Metal Forming: Experience in forming, bending, and shaping sheet metal components using workshop tools and equipment.

PROFILE

I am a proactive professional with expertise in design, manufacturing, research,web development. I am passionate about impactful projects, continuous learning, and delivering high-quality work. I excel in collaborative environments to drive innovation, overcome challenges, and achieve shared goals.

PROJECTS

Machine Design project
Gearbox design for sand sieving machine
ongoing

- **Project Overview**-: designing a gear box to the machine and get knowladge about all components inside gear box with all calculations and design full gear box
- **Contribution**-: designing and calculations of all gear wheels eith shafts , bearings , couplings and chain drive.

Reverse Engineering project
Soldering Iron
04/2025

- **Project Overview**-: Modeled and analyzed a soldering iron to understand its core mechanical systems.
- **Contribution**-: Modeled and developed critical components using SolidWorks. Performed ANSYS thermal analysis on a soldering iron metal tip and studied the material structures of the thermal insulator.

Mechatronics Engineering project
Automated solar panel cleaning robot
08/2024

- **Project Overview**-: Designed and built a automater solar panel cleaner with a remote monitoring from mobile app
- **Contribution**-:Designed and manufactured a mechanical system of the robo and make mobile app using MIT app inventor.

Manufacturing Engineering project
Wall-mounted Flower Vase
08/2024

- **Project Overview**-: onstructed an aesthetically unique flower vase can mount on the wall.
- **Contribution**-:Designed and manufactured a wall-mounted flower vase, incorporating woodworking and sheet metal operations.

Production Operations Management
Arpidag Private LTD
Ongoing

- **Project Overview**: Get idea about production line of company, cost analysis, and overhead management.
- **Contribution**: Collected and analyzed production data, calculated overhead allocations and give ideas to increase their production efficiency.

CERTIFICATIONS

The Complete Fullstack web devolopment bootcamp-UC-7979c8ba-943d-4df7-abd3-f820891672bd.pdf 🔗

VOLUNTEERING

- MERCon 2025 – Program committee member (IEEE Student Branch UoM)
- Rise Up Mora 2024 – Program committee member (IEEE Student Branch UoM) Planned the smooth execution of the event schedule.

EXTRA-CURRICULAR ACTIVITIES

- Rythem guitar played at Sililara Handawa 2024, Mechanized 2025

REFERENCE

Dr. Lihil U. Subasinghe — PhD (NUS), BSc Eng Hons (Moratuwa,SL), CEng.MIE(SL), AMIMechE

Semester 5,6 and Industrial Training Coordinator/ Senior Lecturer (Department of Mechanical Engineering,Faculty of Engineering, University of Moratuwa, Katubedda 10400, Sri Lanka.)

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          +94 11 2650301 (Ext:4507)
          +94 716091050 (Mobile)
Email-: lihils@uom.lk 🔗

MSRA Exam Preparation Platform
04/2025
- **Project overview**-: A practice platform for MSRA (Medical Specialty Recruitment Assessment) with report analysis.
- **Contribution**-: Build a exam paper pages, make result review page and give backend support to my team.
- **Technologies used**: Next.js, MongoDB, Tailwind CSS, Figma
  https://www.acemsra.com 🔗

UMMES
Website for University of Moratuwa Mechanical Engineering Society
09/2025
- **Project overview**-:A platform to showcase UMMES events, news, and photos, while collecting attendee details through forms and displaying alumni profiles
- **Contribution**-: front-end, User Interfaces, and give support to backend.
- **Technologies used**: MongoDB, React js, Tailwind CSS, Node Express, Fetch data from excel sheet University of Moratuwa Mechanical Engineering Society (UMMES) 🔗

Shilpa
Educational Resource and Quiz Platform
11/2024
- **Project overview**-: An educational platform supporting A/L and O/L students with quizzes, past papers, and learning.
- **Contribution**-: front-end, including Past Paper Bank, Teacher Ads, and Admin Panel features.
- **Technologies used**: Next.js, TypeScript, Tailwind CSS, MongoDB
  https://shilpa.org 🔗

Candle Night
Seat Booking Food Ordering System
02/2025
- **Project overview**-: A system that enabled university students to reserve seats and pre-order meals for an event.
- **Contribution**-: front-end, User Interfaces, and give support to backend.
- **Technologies used**: MongoDB, Next.js, Tailwind CSS, TypeScript, Figma
  https://celestia.uomleos.org 🔗

Unity 2D game
on going
- Developing an Android game in Unity with a dragon character that defeats enemies using fireballs in a room environment. A creative hobby to explore game development and experiment with C# scripting..
- Tools Used: C#, Unity
  https://github.com/Malik-priyashan/Unity-game.git 🔗

Smart Medibox Project
07/2025
- Make a smart medibox using ESP32 micro controller nodeRed dash board and Wokwi.