

BIMSARA GUNAWARDANA

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Education

University of Colombo

Bachelor of Engineering Technology Honours in Instrumentation and Automation

June 2022 – present

Colombo, Sri Lanka

Nalanda College

GCE Advanced Level - Technology stream - 4A passes with a Z - score of 2.6045

Feb. 2013 – Oct. 2020

Colombo, Sri Lanka

GCE Ordinary Level - 8A, 1B (including A in English and Mathematics)

Relevant Coursework

- Embedded Systems
- Digital Circuit Design
- 3D Modeling and CAD
- Micro-controllers
- Robotics
- Systems programming
- Computer Architecture
- FPGA

Experience

VirtualPensar Pvt Ltd

Co-Founder and Director,

June 2022 – July 2024

Colombo, Sri Lanka

- Managed the startup's operations, including project planning, customer relations, and strategic growth while balancing academic studies.
- Successfully managed multiple client projects, including custom 3D modeling, printing, product prototyping, and animated visualizations for marketing and technical demonstrations.

Lautus Robotics

Technical Team Member

August 2021 – February 2022

Gampaha, Sri Lanka

- Collaborated on the development and implementation of robotic systems, gaining hands-on experience in robotics and autonomous systems.
- Enhanced problem-solving skills through involvement in the design and testing of various components.

Students for the Exploration & Development of Space Sri Lanka (SEDS)

Technical Team Member

September 2023 – Present

Colombo, Sri Lanka

- Contributed to the Thaprobane 4.0 Mars rover project, focusing on development of manipulator arm.
- Worked collaboratively in a multidisciplinary team.

Projects

Smart Mailbox – Sahasak Nimavum 2023 Silver Award

September 2023

- Led a team to develop an award-winning smart mailbox system, providing real-time notifications and secure parcel management.

Automated Runway Cleaning Rover – Lautus Robotics

February 2022

- Worked on a automated vehicle for cleaning airport runways

CPU Design and Simulation

February 2024

- Designed and simulated a CPU with an ALU and 64-byte RAM, applying skills in digital electronics to bridge theory and practice in computer architecture.

Microcontroller-Based Temperature Monitoring System

August 2024

- Led a team to develop a temperature monitoring system with an ATmega328P, featuring dual display, alarms, LED indicators, and push-button controls, while managing the design, PCB layout, and hardware assembly.

Automated 3D Printing Platform (Ongoing)

- Leading the development of an automated 3D printing platform that enables seamless model uploads and automatic pricing, focused on streamlining workflows and enhancing accessibility for efficient 3D printing services.

Technical Skills and Interests

Languages: Python, C , HTML/CSS, JavaScript, PHP, React,VHDL , SQL, MATLAB

Developer Tools: VS Code, EasyEDA , Git

Technologies/Frameworks: React , Arduino, Raspberry Pi, AWS

3D Design/Simulation : SolidWorks, AutoCAD, Blender, ORCAD, Logisim, Proteus

Soft Skills : Leadership, Problem-solving, Teamwork, Adaptability, Critical thinking, Project Management

Leadership / Extracurricular

Nalanda College Aeronautical Society

2018 - 2019

Vice President

University of Colombo Swimming Squad

May 2024 – Present

Active member of the university swimming team

Inter faculty and Freshers Badminton Competitions

2023

Won 1st runners-up in both Freshers and Inter faculty championships.

UOC Venturers (Hiking Club)

Jun 2024 – Present

Member