

Bimsara Gunawardana

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Education

University of Colombo <i>Bachelor of Engineering Technology Honours in Instrumentation and Automation (ug)</i>	Jun. 2022 – Present <i>Colombo, Sri Lanka</i>
Sri Lanka Institute of Robotics (SLIR) <i>PLC Programming</i>	Nov. 2022 – Apr. 2023 <i>Pannipitiya, Sri Lanka</i>
Nalanda College <i>GCE Advanced Level - Technology stream - 4A passes with a Z - score of 2.6405</i>	Feb. 2013 – Oct. 2020 <i>Colombo, Sri Lanka</i>
<i>GCE Ordinary Level - 8A passes and 1B pass (including A in English and Mathematics)</i>	

Relevant Coursework

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

Experience

VirtualPensar Pvt Ltd <i>Co-Founder and Director,</i>	Jun. 2022 – Jul. 2024 <i>Colombo, Sri Lanka</i>
<ul style="list-style-type: none">• Delivered over 60 projects, including 3D-printable designs, prototype models, and 3D animations.	
Lautus Robotics <i>Technical Team Member</i>	Aug. 2021 – Feb. 2022 <i>Gampaha, Sri Lanka</i>
<ul style="list-style-type: none">• Significantly contributed to the development and implementation of an autonomous guided vehicle, with the design and manufacturing efforts while gaining valuable hands-on experience in autonomous systems.	
Students for the Exploration & Development of Space Sri Lanka (SEDS) <i>Technical Team Member</i>	Sep. 2023 – Present <i>Colombo, Sri Lanka</i>
<ul style="list-style-type: none">• Contributed to the Thaprobane 4.0 Mars rover project by focusing on the development of the manipulator arm, participating in kinematic calculations, and designing arm joints as part of a multidisciplinary team.	

Projects

Smart Mailbox – Sahasak Nimavum 2023 Silver Award <i>Leadership, Teamwork</i>	Sep. 2023
<ul style="list-style-type: none">• 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 <i>Problem-solving, Teamwork</i>	Feb. 2022
<ul style="list-style-type: none">• Contributed to the initial phase of developing an autonomous guided vehicle aimed at cleaning airport runways, focusing on foundational design and prototyping.	
CPU Design and Simulation <i>Critical thinking, Curiosity</i>	Feb. 2024
<ul style="list-style-type: none">• Designed and simulated a CPU with an ALU and 64-byte RAM, applying skills in digital electronics and computer architecture.	
Micro-controller-Based Temperature Monitoring System <i>Leadership, Conflict Resolution</i>	Aug. 2024
<ul style="list-style-type: none">• 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) <i>Leadership, Project Management</i>	Oct. 2024
<ul style="list-style-type: none">• 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

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

Developer Tools: VS Code, EasyEDA, Git

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

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

Leadership & Extracurricular Activities

Nalanda College Aeronautical Society

2018 - 2019

Vice President

University of Colombo Swimming Squad

May 2024 – Present

Active member of the university swimming Squad

Inter faculty and Freshers Badminton Competitions

2023

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

UOC Venturers

Jun. 2024 – Present

Member

References

Dr. B. L. Sanjaya Thilakarathne

Senior lecturer

Department of Instrumentation and Automation Technology

Faculty of Technology

University of Colombo, Sri Lanka

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Chanaka Prasad

Electronic Engineer (Assistant Manager) Softmatter

BSc Engineering(Hons)

MSc(Reading)

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