

Dilmin Siriwardana

OBJECTIVE

Passionate Mechatronics Engineering undergraduate with hands-on experience in various programming languages, CAD design, and PCB designing. Specializing in innovative engineering solutions across multiple industries with current focus on Machine Learning/AI applications. Proven track record in team collaboration and project management. Demonstrated leadership abilities through executive roles in student organizations and strong commitment to continuous learning and professional development.

REFERENCES

Available upon request.

ADDRESS

90/2 Minuwampitiya Rd,
Walana, Panadura

PHONE

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EMAIL

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WEBSITE

<https://dilmins.github.io/>

LINKEDLN

<https://www.linkedin.com/in/dilmin-siriwardana>

EXPERIENCE

Research And Development Intern Engineer | C3 Labs Pvt Ltd | Colombo 04

OCT 2024 - MAR 2025

- Developed and integrated E-paper display systems with cloud-connected IoT platforms, combining hardware and software aspects.
- Implemented hardware-software interfacing for data transmission and device communication protocols.
- Assisted in PCB circuit design and component optimization, improving power efficiency and device reliability.
- Conducted system testing, fault diagnosis, and calibration to ensure optimal performance and safety standards.
- Provided technical support to external operators for installation, setup, and troubleshooting of devices.
- Mentored junior interns, guiding them through circuit debugging and integration practices.

Engineering Intern | Vidullanka PLC | Colombo 03

JUN 2021- NOV 2021

- Collaborated with the Engineering Department to implement IoT-based level monitoring units across 9 hydro power plants, using ultrasonic and sensor-based solar-powered units at forebays and spillways.
- Gained hands-on experience with flow measurement using automatic gauge units and learned to identify critical operational aspects of each hydro power plant.
- Supported the HR Department during the COVID period by managing documents, conducting online training sessions for remote staff to enhance MS Office skills, and helping implement Japanese techniques such as 5S, 3R, and KAIZEN.
- Observed and learned how meetings are conducted to track progress, monitor work performance, and guide staff toward achieving organizational goals.
- Participated in organizing employee engagement events such as award ceremonies, cricket tournaments, and family trips to strengthen team spirit.

EDUCATION

Bachelor of Mechatronic Engineering (Reading) 2022 - 2026
General Sir John Kotelawala Defence University

Certificate in Automation (PLC) 2024
Sri Lanka Institute of Robotics

Diploma in Office Applications 2022
IDM Achievers (Gold Award Winner)

Cambridge A/Levels & O/Levels 2005 - 2021
Lyceum International School Panadura

SOFT SKILLS

- Team Work
- Problem-Solving & Critical Thinking
- Time Management & Multitasking
- Adaptability & Quick Learning
- Communication Skills
- Familiarity with 4DX (The 4 Disciplines of Execution)

TECHNICAL SKILLS

Programming Languages: Python, C++, PLC Ladder Programming

Design & CAD: PCB Designing , Mechanical Drawings

Software & Tools: Altium Designer, MATLAB, Arduino IDE, VS Code, Postman, Fritzing, MS Office, SIMATIC Manager, TIA Portal, Step-7 Micro WIN

Specialized Areas: Embedded Systems and IoT Backend Programming , AI/Machine Learning/Deep Learning, Automation

KEY PROJECTS

1. **Machine Learning based Brain-Controlled Exoskeleton Arm for Assisting Hand-Impaired Individuals using EEG Signals** (2025 - Ongoing)
 - Tools Used : MATLAB, EEGLab , Python , C++ , SolidWorks, Raspberry Pi4
 - Associated with : General Sir John Kotelawala Defence University
2. **Designing of a PCB Power Triggering Circuit using NFC Method** - (2025)
 - Tools Used : Altium Designer
 - Associated with : C3 Labs Pvt Ltd
3. **Programming of QR Code Scanning Device for Transactions** - (2025)
 - Tools Used : Arduino IDE, The Dot Factory, Postman, ESP32
 - Associated with : C3 Labs Pvt Ltd
4. **Programming of Air Quality Monitoring (AQM) Devices** - (2024)
 - Tools Used : Arduino IDE , The Dot Factory, Postman, ESP32
 - Associated with : C3 Labs Pvt Ltd
5. **ML based Surveillance Robot Car** - (2024)
 - Tools Used : OpenCV, VS Code, Arduino IDE, Raspberry Pi4,
 - Associated with : General Sir John Kotelawala Defence University
6. **Automated Cocktail Machine** - (2024)
 - Tools Used : OpenCV, Tkinter, VS Code, Arduino IDE, Raspberry Pi4
 - Associated with : General Sir John Kotelawala Defence University
7. **Wall Following Robot** - (2024)
 - Tools Used : Arduino IDE
 - Based At : General Sir John Kotelawala Defence University

EXTRA CURRICULAR ACTIVITIES

- Executive Committee Member Mar2023- Mar2024
[General Sir John Kotelawala Defence University](#)
- Director of Community Services Apr2023- May2024
[Rotaract Club of Centennial United](#)
- Member Mar2022- Feb2023
[Rotaract Club of General Sir John Kotelawala Defence University](#)