

Bopage Padeesha Kumarasiri

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ACADEMIC QUALIFICATION

Bachelor's in Computer Science Major in Software Eng, Edith Cowan University, Sri Lanka **2025 - Present**
Diploma in IT - Computer Science, Swinburne University of Technology, Australia. **2023 – 2024**
Certificate Course in PLC Programming, Sri Lankan Institute of Robotics, Pannipitiya. **2021**
GCE A/L Examination, D.S. Senanayake College Colombo 07. **2018 – 2022**
GCE O/L Examination, Isipathana College Colombo 05. **2007- 2017**

WORK EXPERIENCE

Project Manager/Director, Greenbay (Private) Limited, Colombo

Mar'22 – Present

- **VR Gaming Center at Excel World Colombo (2023, Nov):**
Designed and implemented a state-of-the-art VR gaming center to improve the entertainment facilities of Excel World Colombo.
- **Bowling Lane Scoring System at Strikes Bowling Alley Colombo (2023, May):**
Developed and implemented an advanced lane scoring system. Developed custom PCBs, transforming the overall user experience and operational efficiency of Strikes Bowling Alley.
- **IP Camera Installation for Hiru Group of Company, Padukka (2022, April):**
Designed and implemented IP camera installation project to Hiru Group of Company for 32 new IP camera installation to get better security and surveillance.
- **Corporate Website for Maxwell Lanka (Pvt) Ltd (2024, Ongoing):**
Partially designed and currently managing the company's website maxwelllanka.com, ensuring optimal performance, content updates, and brand alignment.

ACADEMIC PROJECTS

Title: Semi-Automatic Cooking Machine

- **Duration:** Jan'23 – Dec'24
- **Team size:** 5
- **Summary:** Developed a semi-automated cooking system designed to prepare Sri Lankan curries with minimal human intervention. The system utilized Raspberry Pi 4 as the main controller, integrating multiple subsystems: a dry ingredient dispenser with stepper motors, a fresh ingredient dispenser controlled by servo motors, and a liquid dispenser using diaphragm pumps. A stirring mechanism ensured consistent mixing, and a self-draining system handled grain washing. The Human-Machine Interface (HMI) featured a NeXTion display, enabling users to select dishes and portions easily. The system successfully prepared four Sri Lankan dishes and provided a scalable framework for automating up to 56 recipes with future software upgrades.

Title: Energy Monitoring System

- **Duration:** Jul'22 – Aug'22
- **Team size:** 4
- **Summary:** Developed an energy monitoring system aimed at optimizing energy consumption in residential and commercial buildings. The project involved retrofitting a working energy monitoring plug using off-the-shelf components. Key components included an SSD1306 OLED screen for display, a ZMPT101B voltage sensor, and an ACS712 current sensor for accurate power measurement. The system monitored real-time energy usage, analyzed consumption patterns, and provided actionable insights for energy efficiency. The integration of IoT devices and cloud-based analytics ensured accurate and timely data delivery to users.

INDEPENDENT PROJECTS

Title: Home Automation System (On growing Home Lab)

- **Summary:** Designed and implemented a comprehensive home automation system to enhance convenience, security, and energy efficiency. The project integrated various smart devices, including lighting switches that communicated through Zigbee and Wi-Fi, into Home Assistant. The system also connected to a plant irrigation system, allowing for centralized control and monitoring. Users could manage and automate their home environment through a mobile app, enabling remote access and automation of routine tasks. Now supports Apple HomeKit.

Title: Smart Sliding Gate Controller

- **Summary:** Developed a smart sliding gate controller that integrated with Home Assistant and communicated with the server using MQTT. The project involved designing the PCB and creating a system that could be operated via a phone from anywhere in the world. Features included obstacle detection, automatic closing, and control via RF key fob, keypad, or voice. The solution aimed to provide a convenient and secure entry management system for properties.

TECHNICAL SKILLS

- PCB Designing (EasyEDA)
- Programming and Web Development (C++, C#, Python, Ladder, Java, Dart, Flutter)
- 3D Modelling (SolidWorks, Fusion360)
- System design (AutoCAD)
- Networking (Cisco)
- Structured Cabling
- Electrical Wiring

EXTRACURRICULAR ACTIVITIES

- **National Cadet Corps Participation (2021- 2023)**

Participated as a cadet in the National Cadet Corps (NCC), where I developed leadership skills, discipline, and teamwork through various training programs and activities. This experience enhanced my ability to work effectively under pressure and strengthened my commitment to serving the community.

REFERENCES:

Lasantha Peris
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