

Madusha Suraweera



Engineer with over 4 years of expertise in Electronics and Embedded Systems, including 2 years of hands-on experience in AI.

CONTACT DETAILS

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WEB SITE

- madushasuraweera.com

KEY SKILLS

- Embedded Systems:**
 - Microcontroller: (Arduino, Raspberry Pi, NodeMCU, STM32)
 - FPGA Programming: (VHDL, Verilog)
 - Programming Languages: (Python, MATLAB, C, C++)
 - Additional Skills: RTOS, IoT, ESP32, ESP8266, LoRa, Linux
- Hardware Design:**
 - PCB Design: (Proteus, Altium)
 - Simulation Tools: (LTspice, SOLIDWORKS)
- Protocols:** I2C, SPI, UART, CAN, Bluetooth, WiFi, USB.
- EDA Tools:** Xilinx Vivado, ModelSim, Quartus.
- Debugging Tools:** JTAG, Logic Analyzers, Oscilloscopes.
- AI/ML Tools:** TensorFlow, PyTorch, LangChain.
- Tech Stack:** Python, JavaScript, AngularJS, ReactJS, NodeRed, SQL, Neo4J, REST API.
- Version Control:** Git, GitHub, Azure DevOps.
- Project Tools:** Jira, Asana.

MEMBERSHIPS

MIET Membership No: 110097604

EDUCATION

- MSc in Embedded Systems and IC Design** 2023-2025
Liverpool John Moores University, UK
Degree Class: Distinction
- MEng in Electronic and Electrical Engineering** 2017-2021
University of West of England, UK
Degree Class: Second Class Division 1 (Merit)

PROFESSIONAL EXPERIENCE

IPD Colombo (Pvt) Ltd Colombo 05, Sri Lanka 01/2023 – Present
Embedded Engineer – AI

- Working on IPD projects in Australia.
- Designing and implementing AI and IoT solutions, such as Building Management Systems (BMS) and chatbots.
- Conducting RnD initiatives leveraging microcontrollers, including Arduino, Raspberry Pi, and NodeMCU.
- Streamlining development processes by leading CI/CD operations.

East Link Engineering Company (Pvt) Ltd Colombo 05, Sri Lanka 03/2021 – 12/2022

- Electronic Engineer (09/2021 – 12/2022):**
 - Worked in the RnD Division, focusing on ATMs, vending machines, and kiosks.
 - Spearheaded RnD projects, including:
 - Cinnamon Processing Machine (CPM)
 - Recycle Material Buying (RMB) Vending Machine
 - Liquid Volume Measuring (LVM) Vending Machine
 - Self-Weighing Station (SWS) Machine
 - Solar Experience Center and EV Charging Station
 - Led the RnD Division as a technical lead, managing cross-functional teams.
 - Designed and debugged PCBs to optimize hardware functionality.
- Assistant Electronic Engineer (03/2021 – 09/2021):**
 - Supported the RnD Division in developing ATM, vending machine, and kiosk technologies.
 - Performed PCB design and troubleshooting to ensure system reliability.

SriLankan Airlines Katunayake, Sri Lanka 10/2019 – 01/2020
Trainee Engineer

- Gained hands-on experience in the Engineering Department, specializing in technical services and avionics workshops.

Piramal Glass PLC Horana, Sri Lanka 09/2018 – 12/2018
Trainee Engineer

- Assisted in the Electronics Division, focusing on instrument and electrical workshops.
- Led a project to minimize wastage in coating machine operations, improving production efficiency.

COURSES

- Altium PCB Design Course
- Udemy VHDL for FPGA interfacing
- eduonix IoT E-degree
- Google Project Management

REFERENCES

- Dr. Mahima Weerasinghe**
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- Mr. Maduka Ashan Perera**
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