Kavindu Makaranda Mohottala

Electrical and Electronic Engineer | AMIE (SL) | AEng (ECSL)

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Ⓜ kavindumakaranda.medium.com 🐙 github.com/Makara97

Passionate Electrical & Electronic Engineer with expertise in design, testing, and development of real-world engineering solutions.

Education

BSc. (Hons) Electrical and Electronic Engineering,
Faculty of Engineering, University of Jaffna

Certifications and Courses

Embedded Product Design for IoT
Faculty of Engineering, University of Moratuwa

Altium Education PCB Basic Design Course
Altium Designer

Achievements

Finalist – IEEE Innovation Nation Sri Lanka 2022
For the Floating solar system project

Merit Award – Asani Inter-university Photography Competition 2019
Organized by NDT Student Union, University of Moratuwa

Technical Skills

Altium Designer
AutoCAD
Solidworks
C & C++ , System Verilog

Area of interest

PCB Designing and Prototyping
Renewable Energy Systems
Research and Development
Industrial Automation

Soft Skills

Willingness to learn , Creativity
Critical thinking , Teamwork
Problem Solving

Reference

Mr. W.C.M. Perera
Electrical Engineer, Sri Lanka Telecom PLC,
+94 76 721 3144
channamadu1998@gmail.com

Mr. M.W.M. Keshan
Machine Learning Engineer, Pearson PLC,
+94 76 891 9670
mwmadushakeshan99@gmail.com

Experience

Electronic Design Engineer, Rotax (Pvt) Limited (3 months)
- Developed Firmware for get data from Energy meter to the server

Design Engineer Intern, Noratel International (Pvt) Ltd (3 months)
- Implemented Power correction system using booster circuit

Electrical Engineer Intern, Ceylon Electricity Board (3 months)
- Studied about Sri Lankan power grid and generation

Projects

Li-ion Battery Charger with SOC monitoring Display Port
- For Charge 1 cell Li-ion battery with SOC monitoring capability (I2C display)
- AVR ATTINY 1616, STC3115, BQ25302, NCP718
- Altium Designer
- Files Link

Smart Power Plug with IoT capability
- For monitor and control electrical appliances.
- Altium Designer, SolidWorks, Node-Red, C++, MQTT

Energy Monitoring System (Modbus RTU RS485)
- For gather energy parameters from energy meters
- Modbus RTU RS485 , C++ (Arduino)
- Files Link

Floating Solar Power System (3.27 kWh, First in Sri Lanka)
- The first locally designed and implemented floating solar system in Sri Lanka with 3.27 kWh capacity
- Solidworks, AutoCAD, Pylon design tool, Ansys Workbench – MATLAB

Traffic Light Controller using System Verilog
- Using a hierarchical Finite state machine automatically changes the traffic lights on all 4 roads.
- AMD Vivado.
- Files Link

Volunteering

Treasurer - IEEE Signal and Processing Society
- University of Jaffna (2021/22)

Committee Member - Electrical and Electronic Engineering Society
- University of Jaffna (2022/23)