

Sathik Fareed Mohamed Azam

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Education

B.SC. ENG (HONS) IN ELECTRICAL AND ELECTRONIC ENGINEERING

Oluvil, Sri Lanka

South Eastern University of Sri Lanka

2020 – 2024

Academic Interests: Embedded System Design, Digital System Design, Robotics & Mechatronics

CGPA : 3.24

Professional Experience

SOUTH EASTERN UNIVERSITY OF SRI LANKA

Oluvil, Sri Lanka

Faculty of Engineering

Nov 2024 – Present

Temporary Instructor

- Delivered laboratory sessions on fundamental electronic principles and circuit analysis.
 - Guided students in designing, building, and testing electronic circuits.
 - Facilitated hands-on training in the use of laboratory equipment and measurement tools.
 - Supervised and evaluated practical experiments to ensure accuracy and learning outcomes.
 - Enforced safety standards and best practices in a laboratory environment.
- Supported students with troubleshooting and optimizing electronic designs.

CEYLON ELECTRICITY BOARD

Colombo, Sri Lanka

Electrical Engineer Intern

Oct 2023 – Dec 2023

- Learned core principles of power generation processes through hands-on training.
- Studied protection systems, including auto-reclosers and relay operations for grid safety.
- Gained knowledge of transmission and distribution networks through practical exposure.
- Practiced using PSSE software for basic network simulations and analysis.
- Participated in long-term generation and transmission planning activities.
- Observed power system monitoring and control equipment operations.

LANKA ELECTRICITY COMPANY

Colombo, Sri Lanka

Electrical Engineer Intern

Sep 2022 – Dec 2023

- Assisted in breakdown maintenance work including wire repairs, joint making and T-off connections.
- Performed energy meter replacements and emergency power failure responses.
- Collected faulty electrical components (MCBs, T-offs) for laboratory analysis.
- Conducted testing of damaged components at LECO Training Center to identify failure causes.
- Gained practical experience using distribution maintenance tools and safety equipment.

Skills

Programming Language	C/C++, Verilog, Python, Assembly Language, Embedded C
Embedded Platforms	STM32, ESP32, Arduino, Raspberry Pi
Electronic Design	Altium, EasyEDA, KiCad
Hardware Debugging	Oscilloscope, Logic Analyzer, Multimeter
Tools	MATLAB, AutoCAD, SolidWorks
Communication Protocols	I2C, SPI, UART, CAN

Projects

Simple Blockchain-Based Energy Trading System (FYP)

Sep 2024

- Designed and developed a blockchain-based energy trading platform with React.js frontend and Solidity smart contracts for peer-to-peer transactions.
- Integrated ethers.js for blockchain communication and implemented double auction matching algorithm for optimal energy price discovery.
- Deployed and tested smart contracts using hardhat development framework and ganache blockchain environment.

Publications

- Development of course recommendation system with Udemy dataset - [URL](#)

References

Dr. A.M.A. Saja [*PhD (QUT-Australia)*]
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