KAVINDU TALAGUNE

ELECTRICAL ENGINEER

CONTACT

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PROFILE SUMMARY

Driven and detail-oriented electrical engineering undergraduate with a strong grasp of core engineering principles and a commitment to real-world problem solving. Experienced in areas such as power systems, electrical machines, and electrical installations. Alongside technical expertise, I am also well-versed in administrative functions including project coordination, documentation, and task management.

EDUCATION

2021 - 2025
UNIVERSITY OF MORATUWA

- B.Sc. Eng. Hons. in Electrical Engineering
- CGPA: 3.73/4.0

2016 - 2019
DHARMARAJA COLLEGE, KANDY

- GCE A/L Physical science stream 2019
- Island Rank - 12

SKILLS

- Technical skills
  - Microsoft Office
  - Python
  - SolidWorks/AutoCAD
  - PSCAD
- Soft skills
  - Effective Communication
  - Time management
  - Teamwork

REFERENCES

References can be provided upon request

WORK EXPERIENCE

Lanka Electricty Company (Pvt). Ltd 2025/04 - 2025/05
Trainee electrical engineer

- Handled branch office operations, including preparing daily progress and tender reports, while also assisting customers with electricity bill services and inquiries.

Ceylon Electricity Board 2025/02 - 2025/04
Trainee electrical engineer

- Acquired practical experience in thermal and hydro power generation processes, along with exposure to high-voltage transmission network operations and infrastructure.

Sri Lanka Ports Authority 2024/11 - 2025/02
Trainee electrical engineer

- Gained hands-on experience with heavy electrical equipment including gantry cranes, marine electrical systems such as those on tugboats, and interior lighting design for buildings.

KSJ Construction (Pvt). Ltd 2019/08 - 2020/03
Intern administrative officer

- Managed daily wage payments for laborers and maintained financial records through regular preparation of cash books.

PROJECTS

Development of machine vision based railway inspection system

- Designed and implemented a railway track fault detection system using Jetson Nano as an edge computing device, integrating IoT sensors and state-of-the-art object detection models such as YOLOv11 for real-time defect identification.
- Deployed the system on an unmanned guided vehicle (UGV) for autonomous rail inspection, featuring onboard processing, GPS tracking, and wireless data transmission for remote monitoring.

Development of an AI model for solar and wind energy forecast

- Used an Artificial Neural Network (ANN) to predict solar energy generation, incorporating data preprocessing, feature engineering, and deployment in a real-time web application.
- Developed a Long Short-Term Memory (LSTM) model to forecast wind energy generation using univariate time series data