W. VIDATH KAUSHAL

ELECTRICAL ENGINEERING TECHNOLOGY - UNDERGRADUATE

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SUMMARY

A motivated third-year Electrical Engineering Technology student at the University of Jaffna with a strong academic foundation (GPA: 3.0) and hands-on project experience in battery systems and fire prevention. Seeking an electrical engineering internship to apply classroom knowledge in areas such as electrical distribution and transmission, electrical machines, and renewable energy while developing practical industry experience. Demonstrates leadership capabilities through past roles as Senior Prefect and Sports Captain, with a proven ability to balance multiple responsibilities.

EDUCATION

University Of Jaffna | 2022-Present
Bachelor of Engineering Technology (BET) Honors in Electro Specialization

- GPA: 3.0 (Current)
- Selected Academic Projects:

- Battery Management System Design: Developed smart charging protection
- Environmental Monitoring System: Led 3-person team in developing designed and implemented predictive fire prevention system

Key Technical Coursework:

- Power Systems & Applications

- Hands-on experience with power electronic circuits and industrial applications
- Laboratory work in power conversion and control systems

- Embedded Systems & Programming

- Practical implementation of microcontroller-based systems
- C++ programming for embedded applications

- Renewable Energy Technology

- Solar and wind power system design principles
- Grid integration and power distribution concepts

- Electrical Machine

- Motors, Generators and Transformers

ESOFT Metro Campus | 2021
Dip.in English
- Enhanced technical communication skills
- Developed proficiency in professional documentation and presentations

St. Joseph's College Anuradhapura | 2007 - 2020
G.C.E Advanced Level - Engineering Technology Stream

- Achieved qualifications for university entrance
- Leadership Roles:

- Sports Captain (2020): Led school athletic teams and organized sports events
- Senior Prefect: Managed student affairs and coordinated school activities

INTERNSHIP OBJECTIVES

- Gain practical experience in electrical machines, power systems and transmission systems development
- Apply academic knowledge to real-world electrical engineering projects
- Develop professional skills in an industry environment
- Contribute to meaningful projects while learning from experienced engineers

MINI - PROJECTS

Smart Battery Charging Protection System (Ongoing)

- Designing and implementing a battery management system using microcontroller programming and power electronic principles
- Developing mobile application interface using Android Studio for real-time monitoring
- Applying concepts from Power Electronics and Embedded Systems coursework to create practical solutions
- Collaborating with team members to integrate hardware and software components

Fire Prevention System (Ongoing)

- Implementing sensor integration and environmental data analysis
- Designing predictive systems to analyze multiple environmental factors for early fire detection
- Creating a user interface for system monitoring and alert management
- Applying principles from Control System Engineering and Transducer Technologies to develop automated response mechanisms

SKILLS

TECHNICAL SKILLS

- Programming: C++, MATLAB
- Software: Proteus (Circuit Simulation), Android Studio
- Hardware: Microcontroller programming, Sensor integration
- Areas of Knowledge: Power Electronics, Embedded Systems, Renewable Energy, Electrical Transmission, Electrical Machine

SOFT SKILLS

- Leadership and Team Collaboration
- Time Management
- Problem-Solving
- Active Listening

ADDITIONAL INFORMATION

Language

- Sinhala
- English

REFERENCES

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