SEELAM VINOD KUMAR

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OBJECTIVE

An enthusiastic and quick-learning B.Tech graduate wants to work with an organization which offers challenging opportunities, enabling me to apply my knowledge of **Python, C and Java** and improve my abilities. I aim to contribute to innovative projects and grow my skills in a dynamic and challenging environment.

EDUCATION

Institute of Aeronautical Engineering, Dundigal, Hyderabad **2021 - 2025**
B.Tech (Bachelor of Technology)_Electrical and Electronics Engineering (EEE)
(8.5 CGPA)

Narayana Junior College, Hyderabad **2019 - 2021**
Intermediate_MPC (96.0%)

Deep Roots High School **2018 - 2019**
Secondary School of Certificate (9.3 CGPA)

SKILLS

Frontend: HTML, CSS
Backend: Python, C, Java
Databases: SQL, DBMS
Other skills: MS-Office, Simulink, Hardworking, Quick learner

PROJECTS

An Improved Bat Algorithm for More Efficient and Faster MPP Tracking for a Photovoltaic System Under Partial Shading Conditions:

Real-Time Solar Panel and Battery Monitoring System

This study investigates the use of an Arduino Nano integrated with voltage and current sensors for real-time monitoring of solar panel and battery parameters.

Implemented a monitoring system that employs a voltage sensor to measure solar and battery voltages, alongside dual current sensors to track the current flow between these two components.

Optimized data processing and parameter tracking using a Bat Algorithm, inspired by the echolocation behaviour of bats, for enhanced accuracy and efficiency in evaluating the system's performance under varying conditions.

Demonstrated efficacy through simulation and experimental results, ensuring reliable parameter monitoring and optimization in renewable energy systems.

Technologies used: Arduino Nano, Voltage Sensors, Current Sensors, Bat Algorithm, Simulation, Experimental Analysis, Renewable Energy Systems, Embedded Systems

INTERNSHIPS

- Done an internship at **The National Small Industries Corporation LTD**, Technical Services Center on Electric Vehicle(EV) technology.
- Done a summer internship on **Analysis of lifetime evaluation techniques for grid connected PV inverter** in Institute of Aeronautical Engineering.

WORKSHOPS

- Attended a workshop on carpentry, electrical wiring at IARE College.
- Attended a workshop on transformer at pochampally substation.

CERTIFICATES

Certificate on EV Technology:

Electric Vehicle (EV) Technology encompasses the design, development, and implementation of electric vehicles powered by batteries or fuel cells, aiming to reduce greenhouse gas emissions and reliance on fossil fuels.

Summer Research Internship (SRI-2024):

On "Analysis Of Life Time Evaluation Techniques for Grid Connected PV Inverter"

The analysis of lifetime evaluation techniques for grid-connected photovoltaic (PV) inverters focuses on assessing the reliability and performance of inverters over their operational lifespan. By employing various methodologies, such as accelerated aging tests and statistical modelling, this research aims to enhance the durability and efficiency of PV systems, ultimately contributing to the sustainability of renewable energy sources.

Certificate on Data Visualisation: Empowering business with Effective Insights - Forage

- Completed a simulation involving creating data visualisation for Tata Consultancy Services
- Gained hands-on experience in data visualization.
- Developed effective visuals and communicated data-driven business insights.