BALAUDAY BURUNOLLA

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Career Objective

Ambitious and resilient engineering graduate with strong technical knowledge in Electrical & Electronics Engineering and practical experience in diverse projects and internships. Skilled in time management, presentation, and problem-solving, with a patient and adaptable approach to challenges. Aspiring to drive innovation and contribute to organizational success while growing professionally.

Education

- **Bachelor of Technology** **2022-2025**
  Vignan Institute of Technology and Science, Deshmukhi- Yadadri Bhuvanagiri
  JNTU-H| Electrical & Electronics Engineering (EEE)| Aggregate: 7.8 CGPA
- **Diploma** **2019-2022**
  Jawaharlal Nehru Government Polytechnic, Ramanthapur-Hyderabad
  TS-SBTET| Electrical & Electronics Engineering (EEE)| Aggregate: 9.62 CGPA
- **10th STD** **2018-2019**
  Kanthi High School, Armoor-Nizamabad
  TS-BSE(SSC)| Aggregate: 9.7 CGPA

Internships

- **IBM Skillsbuild on AI & Cloud Internship- Chatbot** **June 2024- July 2024**
  Edunet Foundation-AICTE
- **Industrial Training- Designing of solar PV system** **Jan 2021- July 2021**
  NSIC-National Small Industries Corporation Ltd.

Projects

- **Simulation Model for Protection of Battery Management System**
  The battery management system supplies power to electronic components with varying parameters, aiming to protect them from overvoltage, overcurrent, and temperature faults for reliable operation.
  Key Tools: *MATLAB R2024b, Simulink and Simscape Models, Fuzzy Logic Controller*
- **Motor Speed Controlling Using Temperature and Humidity Sensor**
  Motor speed control with a temperature sensor like the DHT11 adjusts speed based on temperature, preventing overheating, improving efficiency, and minimizing heat-related performance losses effectively.
  Key Tools: *Arduino-IDE, Arduino UNO, DHT11 Sensor, Liquid Crystal library*
- **Bus Overload Alert System**
  Developed a real-time overload detection system using IR sensors to monitor bus capacity. Alerts are triggered when the bus exceeds safe limits, ensuring passenger safety.
  Key Tools: *Sensor Technology, Microcontroller Programming, Public Safety*
- **Home Automation Using Bluetooth**
  Home automation with a Bluetooth module offers wireless appliance control, simplifying tasks and enhancing convenience via seamless connectivity using smartphones or Bluetooth-enabled devices.
  Key Tools: *Arduino-IDE, Bluetooth, MIT Inventor App*
- **Automatic Speed Control of Vehicles at Accident Zones**
  An automated system was developed to reduce accidents by controlling vehicle speed in high-risk zones, using an RF module to communicate with nearby vehicles and enforce speed reduction effectively.
  Key Tools: *Embedded Systems, RF Communication, Safety Automation.*

Technical Skills

Python Programming, Solar PV System Designing, Animation, PLC Automation, MATLAB Programming

Certifications

- **Python Programming**- SCALER
- **Solar Energy**- UDEMY
- **Introduction to MATLAB & Simulink**-NIELIT
- **Electric Vehicle Design Using MATLAB**- PANTECH E-LEARNING
- **3D Blender Animation Course**- LEARNVERN