G DHANUSH **Email:** gdhanush0704@gmail.com

LinkedIn: https://www.linkdin.com/in/g-dhanush-305aa9323 **Mobile:**8618494582

EDUCATION

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT (8.87cgpa) Bengaluru, India

Bachelor of Engineering in Electrical and Electronics Engineering Dec 2023-Present

T.M.A.E.S POLYTECHNIC (9.47 cpga) Hospet,India

Diploma Engineering in Electrical and Electronics Engineering June 2020-July2024

BOYS HIGH SCHOOL (89.92%) Kamalapur, India

SSLC June 2015-July2020

SKILLS SUMMARY

- **Languages:** Python, C++
- **Soft Skills:** System Knowledge, Strong Stake Holder Management, Patience

I have good knowledge in the core subject of Electrical and Electronics Engineering (EEE). I also have basic skills in Python and C++ programming. I understand how electrical systems work and how to handle them in real situations. I can work well with different teams, explain ideas clearly, and solve problems calmly, even during tough times.

PROJECTS

➢ SMART POTHOLE DETECTION SYSTEM

- Developed a sensor-integrated system using Arduino for detecting potholes and obstacles in water-filled areas.
- Used ultrasonic sensors, IMU, and GPS modules to collect real-time environmental and location data.
- Incorporated a pan-tilt mechanism to enhance sensor coverage and directional flexibility.
- Processed and visualized the collected data using Python, with 3D surface plotting for better representation.
- Demonstrated practical applications in flood monitoring and improving road safety through early detection.

➢ ENERGY MANAGEMENT STRATEGY OF A PHOTOVOLTAIC ELECTRIC VEHICLE CHARGING STATION

- Designed and simulated an electric vehicle charging system using MATLAB Simulink, integrating solar panels and battery storage.
- Developed an energy management strategy to control power flow between solar input, battery reserve, and the utility grid.
- Ensured stable DC bus voltage under changing solar irradiance to maintain consistent system performance.
- Evaluated the system's efficiency, reliability, and reduced grid dependency under various environmental and load conditions.

EXPERIENCE

Company: Mahle Anand Thermal Power System Pvt. Ltd., Chakan, Pune
Duration: 17th February 2023 to 31st May 2023
Department: EGR (Exhaust Gas Recirculation)

- Gained practical exposure to the design and functioning of EGR systems used for emission control in automotive engines.
- Learned about the manufacturing, assembly, and testing of EGR components such as coolers and valves.

KEY HIGHLIGHTS

LANGUAGES: English, Kannada, Tamil, Hindi, Telugu

HOBBIES: Travelling, Volunteering, Learning new tools

Declaration:

I hereby declare that information provided above is true and correct to the best of mu knowledge and belief

G Dhanush