**DADE MADHUKAR**
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## Skills

- **Programming Languages:** Verilog, Embedded Linux , C++, C, Shell Scripting.
- **Tools/Platforms:** Matlab , Proteus 8, Vivado , Cadence, Oracle Virtualbox.
- **Web Technologies:** HTML and CSS.
- **Soft Skills:** Adaptability ,Time Management, Problem Solving, Analytical thinker.

## Internship

***Resolute Electronics Private Limited*** **July 2022-Nov 2022**

**Testing and Production Intern**

- Completed industrial training and Gained hands-on experience in Electronics Manufacturing Services **(EMS).**
- Conducted functional testing on **120+ LED TVs per shift**, checking display, sound, ports, and power stability.
- Worked with a **10-member production team** to meet daily targets of **500+ units**.
- **Programmable Logic Controller(PLC) – Intern**
- Completed Summer internship at LPU University-Understanding of automation technologies, control logic and real-world applications ,enhancing my practical knowledge in field of Electronics and Communication Engineering.

## Projects

***AI-Enabled E-Waste Component Extraction and Segregation System*** **Sep 2025**

- Developed and AI-enabled image processing system to identify and classify components from e-waste accurately.
- Implemented automated extraction and segregation to reduce manual sorting and improve operational efficiency.
- Supported sustainable e-waste management through intelligent component recovery using AI and computer vision techniques.

***FPGA-Based Real-Time Sound Level Measurement System*** **Aug 2024**

- Designed FPGA sound-level system with HW-484 sensor, achieving 30% quicker noise detection.
- Displayed sound intensity levels on LCD and integrated buzzer alerts for instant high-noise indication.
- Improved system accuracy through calibration and testing across varied noise environments .

***FPGA-Based Gas Detector*** **Apr 2024**

- Designed a real-time gas detection system using FPGA and sensors to identify gases and trigger alarms.
- Integrated an LCD and Buzzer notifications to provide immediate warnings in case of gas leakage.
- Ensured accuracy and reliability; Tested hardware functionally using simulation tools

***Harnessing Renewable Energy For Wireless charging of Electric Vehicles On Road*** ***Feb* 2024**

- Collaborated with a team to develop a wireless charging system for Electric vehicles using wind energy from moving vehicles.
- Implemented transmission and receiver coils embedded in roads to generate and transfer power efficiently.
- Demonstrated on-the-go charging for electric vehicles through innovative energy harnessing techniques.

## Achievements

- ***National Means-cum Merit Scholarship(NMMS) – Recognized at State Level*** **Mar 2025**
  Awarded the NMMS scholarship for outstanding academic performance, securing a distinguished rank at state level.
  Excelled in the Mental Ability Test (MAT) and Scholastic Aptitude Test(SAT) at the state level
- ***State Level Srujana Tech Fest*** **Jan 2025**
  Smart Blind Stick with Obstacle Detection

## Certifications

- **Fundamentals of VLSI chip design and electric EDA tool (Coursera)** **Jan 2025**
- Coursera: ..\Certificate link.pdf
- **DBMS :Master the Fundamentals and Advanced Concepts (scaler)** **Jan 2025**
- **Published Patent on Harnessing Renewable Energy for Wireless Charging of Electric Vehicles** **May 2024**
- **Participated Hackathons at Lovely Professional University** **Feb 2024**

## Education

**Lovely Professional University** *Phagwara, Punjab*
*Bachelor of Technology – Electronics and Communication Engineering – CGPA: 6.8* ***Since Aug* 2023**
***Government Polytechnic College*** *Nizambad, Telangana*
*Diploma in Electronics and Communication Engineering – Percentage: 78.9%* **Sep 2020 - Jun 2023**
**Zilla Parishad High School** *Lingapur, Telangana*

*Matriculation* — ***CGPA:10.0*** **Jun 2019 - Apr 2020**