SRINIVAS DHARAVATHU

• 9346514567 • srinivasdharavathu1022@gmail.com • Eluru • Linkedin • Github

CAREER OBJECTIVE

Results-oriented Electrical & Electronics Engineering graduate with a focus on Power Electronics, Motor Control, and Embedded Systems.Skilled in simulation tools such as MATLAB/Simulink and hands-on experience with CAD & Design Tools like CATIA V5. Strong background in project implementation, internships, and certifications related to Electric Vehicle Design and Embedded Systems

KEY SKILLS

Power Electronics: DC-DC Converter Design & Analysis | Inverter Design | Motor Drive Systems
Motor Control: PWM | BLDC Control | PMSM Control | Field-Oriented Control (FOC)
Embedded Systems: Arduino | ESP32 | STM32 (Basic) | CAN Communication
Simulation Tools: MATLAB/Simulink | Proteus | **CAD & Design Tools**: CATIA V5 | AutoCAD
Programming: C++ | Embedded C | Python | **Productivity Tools**: MS Excel | MS Word | MS PowerPoint

INTERNSHIPS

Skyyriders Jun '23 - Aug '23

Intern - Electric Golf Cart Design

- Designed electric drive and battery integration system for a **custom-built electric golf cart**
- Modeled mechanical parts in CATIA and handled **battery-pack layout and DC wiring**
- Performed testing, troubleshooting, and circuit debugging **during prototype validation**

PROJECTS

Power Saving System for EVs using ESP32

- Developed an innovative **ESP32-based system to optimize power efficiency** in electric vehicles
- Implemented real-time monitoring of battery status and optimized **energy-efficient sleep modes**

Overhead Transmission Fault Detection System (Arduino)

- Developed a prototype to detect **L-G and L-L faults in power lines**, which significantly improved fault detection accuracy and reduced response time for maintenance teams
- Implemented and integrated **GSM module** to enable real-time alerts and notifications for improved monitoring and communication

Accident Alert System with GPS Tracking (Arduino)

- Developed a real-time accident detection and alert system by integrating accelerometer, **GPS, and GSM technologies**
- Implemented strategies to enhance emergency response time by **enabling live location transmission** for faster coordination

CERTIFICATIONS

- Completed Executive Post Graduate Certificate Program in **Electric Vehicle Design** conducted by iHub DivyaSampark IIT Roorke & Intellipaat
- Collaborated with **Vihan Electric Workshop** to design innovative electric vehicles
- Participated in **Embedded Systems Workshop** at RGUKT Srikakulam

EDUCATION

RGUKT | Srikakulam Jun '20 - May '24

B. Tech - Electrical & Electronics Engineering - CGPA: 8.45

RGUKT | Srikakulam Jun '18 - May '20

Pre-University Course (PUC) - CGPA: 8.0