MARRI JANARDHAN BABU

ELECTRONICS ENGINEER

CONTACT

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PROFESSIONAL SUMMARY

Efficient professional with 4.8 years of experience and proven knowledge of regulatory compliance, research, and development, and work methods analysis. Aiming to leverage my abilities to successfully fill the Electronics engineer role on your team. Seeking to utilize excellent communication, interpersonal, and organizational skills to complete tasks. Reliable with a good work ethic and the ability to quickly adapt to new tasks and environments.

SKILLS

- Circuit Analysis
- Hardware Development
- Analog Circuit Design
- Schematic Development
- PCB Layout and Design(Altium, KiCAD, Eagle)
- PCB Soldering and Rework
- Circuit Analysis and Testing
- Oscilloscope, DMM, Signal generator
- Embedded C
- Software Testing and Validation
- C (Programming Language)

LANGUAGES

- **English**
  Conversational
- **Hindi**
  Conversational
- **Telugu**
  Fluent
- **Tamil**
  Beginner

EXPERIENCE

Electronics Engineer Vayukah Drone Systems and Services Pvt Ltd - Vijayawada, Andhra Pradesh
02/2023 - Present

- Evaluated new technologies available in the market for potential use in future designs.
- Created technical documentation including user manuals, datasheets, schematics.
- Provided technical support to colleagues in order to resolve engineering issues quickly and effectively.
- Designed construction projects by studying project concept, architectural drawings and models.
- Assisted in root cause analysis of field failures in order to identify corrective actions.

TECHNICAL SUPPORT ENGINEER Quess Crop - Tirupati
11/2021 - 02/2023

- Supporting Service team to solve field issues
- Analyzing and debugging the felid return BMS boards
- Developing new design for Battery Management System (BMS).

INTERNSHIP Amara Raja Power Systems Ltd. - Tirupati
09/2020 - 09/2021

- Supporting production team to solve the issues occurred in the production time
- Analyzing and debugging the felid return BMS boards
- Assisted Service team to identify and solve the felid issues.

EDUCATION

BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING: Electronics and Communication Engineering
Sri Venkateswara Engineering College (NBA & NAAC 'A' Grade) - Tirupati, 2020
GPA: 7.2

DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING
Sree Vidyanikethan College of Engineering
(NBA & NAAC 'A' Grade) – Tirupati,2017

HIGH SCHOOL DIPLOMA
Narayana E-Techno English Medium High School - Tirupati, 2014

PROJECTS

Battery Management System(Design Engineer):
Designed and development of 2kWh, 7.5kWh, 8kWh & 10kWh 14S EV BMS for 3 – wheeler and 2 – wheeler segment. (Completed)

Battery Swapping station(Testing Engineer):
worked as hardware support engineer to develop a battery swapping station which features CAN and Modbus for intra-communication, for user interface touch based 10.7-inch LCD display

High Voltage Battery pack(Testing Engineer):
Designed and developed an isolated contactor control board for smooth and clean operation. (Completed)

Power Distribution Board(Design Engineer):
Designed and developed Power Distribution Board for Survey Mapping and Agricultural drone with inbuilt analog Voltage and HAL-effect based current sensor. (Completed

CAN Communication board(Testing Engineer):
Developed a communication board using CAN protocol for vital signs monitors, ensuring reliable data transmission and signal integrity. The design included schematic verification and filtering circuits to support accurate, noise-free monitoring in critical healthcare applications.

Flight control carrier board(Design Engineer):
Designed a carrier board for Cube Orange Pulse flight controller to develop an quad copter for survey mapping drone.

Agricultural drone(Design Engineer):
Designed a drone in agriculture segment with a tank capacity of 15 liters, fly time of 20 minutes.

Battery Management System (Design Engineer):
Designed and developed standalone and Smart BMS for Drones with CAN communication protocol to communicate with flight controller.

Wiring Harness for drone(Design Engineer):
Designed wiring harness for drone to optimize the connectivity and cable interference. Also optimized the occupied weight for inter communication lines.

4-channel DC-DC Converter (Design Engineer):
Designed a4 channel and 3 channel DC-DC converter for drones, which can support 60V input and outputs 16V to 2.5V (adjustable) at 3A per circuit with efficacy of 92%.

DECLARATION:

I, Marri Janardhan Babu do hereby conform that the information given above is true to the best of my knowledge.

Place: Tirupati
Date:

(Marri Janardhan Babu)