

RAMKUMAR

CONTACT

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🎂 06-11-1995

OBJECTIVE

To work in a firm with a professional work driven environment where I can utilize and Gain knowledge, skills which would enable me to grow, while fulfilling the organisational goals.

SKILLS

- Schematic Design: Using Orcad Capture
- PCB Layout & Design: Using Zuken Cadstar
- Hardware Design and Broad Bringup
- CAN &Data log troubleshooting: Expertise in CAN tools Influx, Kvaser, PCAN, Microchip Can Bus Analyser, Hioki dataloggers

LANGUAGE

- ✓ Telugu -Read , Write, Speak
- ✓ Hindi -Read , Write, Speak
- ✓ English -Read , Write, Speak

EDUCATION

Siddhartha Institute of Technology and Sciences

2017

Bachelor's in Engineering & Technology
A

Kakatiya Junior College

2013

Intermediate
91.5

Modern High School

2011

High School
86.3

ROLE

Sr.ELECTRONICS HARDWARE DESIGN ENGINEER with 5+ years experience.

EXPERIENCE

SENATLA INNOVATIVE EV COMPONENTS PVT LTD

Aug 2021 - Till Date

Electronics Hardware Design Engineer
Design and developing Switch Mode Power supplies with Analog & Digital
Designing hardware using FPGA and Battery management sytems using
CAN, RS485 and UART Communication.

Electronics Corporation of India Ltd

June 2018 - July 2021

Design and Testing Engineer
Hardware Testing Of Control Units,Ballot units, evm's, vvpatt's.

PROJECTS

TEAM LEAD: 700W IP67 On- Board Li-ion LLC Charger with PFC & CAN.

1)Experience in designing Onboard IP-67 rated LLC half bridge charger with PFC 700W output.

TEAM LEAD: Smart BMS 60V 50A with UART, CAN communication

Designed and developed Smart BMS 1KW, can be extended upto
6KW with UART and CAN communication, precharge function,
Over charge protection, Over discharge protection, Overcurrent
protection, Over temperature protection, automatic passive cell
balancing, Short circuit protection.
Designed and validated sensing circuits for voltage, current, and temperature
• Integrated protection circuits for over-voltage, over-current, and thermal safety
• Performed load testing up to 100A
• Ensured EMI/EMC compliance through rigorous testing
• Handled PCB design, component selection, and full board validation.

TEAM LEAD: 4S LFP BMS, 13S NMC BMS and Solar charge control MPPT as the Team Lead.

Designed, Generated schematics, supported PCB Designing personnel in developing PCB with
defined Routing practices, managed Parts procurement and assembling, tested Boards and
modified designs to achieve required specifications.

TEAM MEMBER: 600W, 1KW & 2.2KW Li-ion charger

Worked on Half bridge topology & Phase shift Full Bridge Topology Chargers ranging from 0.6kW,
1 kW and 1.5kW to 2.2KW
with output current 6A, 10A, 15A, 25A & 40A with can communication design and
implementation for CAN based Smart BMS battery.

TEAM MEMBER: 550W Off-Board LLC Charger with CAN, UART, OLED display

1) 7.5A LLC resonant Half Bridge topology Fully CAN enabled charger tracing, generating schematics, supporting pcb designer developing PCB, BOM, testing the board pcb level and tuning the magnetics as per efficiency, load and line regulation, and regenerating schematics, pcb and bom as per revision.

2) Working hands on experience with Can communication, can termination, vehicle level with cluster, mcu, battery

SUMMARY

Dedicated and result driven Sr.Hardware design engineer with experience in designing Switch mode power supplies rated from 0.5KW to 2.2KW and Battery management systems rated from 1KW to 6KW.

Experience in design and generation of Schematics, PCB Design and Layout, Testing and customer release.

DECLARATION

I do hereby declare that the above stated information is true.

ACHIEVEMENTS & AWARDS

✓ PCB Design Intern at Elite Circuits