

GADDALA KARTHIK KUMAR
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CAREER OBJECTIVE

As a Power Electronics Engineer, I'm Responsible to take part in and Ensure the Development of Innovative Cost Effective and Reliable power electronic Solutions which helps in Increase of Organization Productivity.

Examination	Board/ University	Institution Name & Place	Percentage of Marks	Academic Year
B.Tech. (EEE)	JNTU	J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY	67.62%	2014-2017
Diploma in EEE	State board of technical education and training	GOVT. POLYTECHNIC BELLAMPALY	76.14%	2011-2014
S.S.C	School of secondary Education	ARUNODAYA VIDYALAYAM H S, KAGAZNAGAR	74%	2010-2011

PROFESSIONAL EXPERIENCE (2.6 YEARS)

ORGANIZATION	FIELD	FROM	TO
GROW CONTROLS HYD	RESERCH AND DEVELOPMENT	AUGUST 13,2021	TILL DATE (2.6Yrs. Hand-on Experience)

GROWCONTROLS is headed by Power Electronics Engineer with more than two decades research experience in development of specialized power supply solutions. Being research-based organization and executes Design and Development activities.

“GROW CONTROLS” developed critical power electronic systems for Army, Air Force, Navy, Defense Research Labs and Defense Production units.

JOB RESPONSIBILITIES

- Work cross-functionally with manufacturing, design engineering, and other teams to define/qualify instructions, equipment, tools, materials, and training.
- Building up culture of continuous improvement.
- Collaborating with Mechanical, PCB layout, and firmware engineering teams to design, validate and Manufacture Power Converters/Supplies.
- Tracking the necessary updates in the production of power supply.
- Debugging and functionality verification of AC/DC and DC/DC switching power supply modules in various topologies using Power Integration’s products.
- Soldering of PCB, wiring, routing the system.
- Testing the PCB under signal level and power level.

TECHNICAL SKILLS

- Strong Comprehension on voltage regulation and different power conversion topologies and its control through Power electronics control.
- Good knowledge in Understanding the working principles of MOSFET’S, IGBT’S, INVERTERS, RECTIFIERS, PWM IC’S, DIODES Etc.
- Good Proficiency on power electronics topologies (AC/DC, DC/DC & DC/AC).
- Good Understanding of switching waveforms, Semi-conductor losses and experience with loss modelling.
- Experience with high voltage power semiconductor selection, gate drive and protection circuit design
- Awareness in design of power converters relevant to the EMC requirements.

PROJECT OVERVIEW

1. 23 KW DC-DC POWER SUPPLY

Description: My Team had developed a Power supply with a 240V -600V variable input DC voltage which provides 220V -330V variable output DC voltage, whose output current of 34.5 A To 90A. operating with 25 kHz switch frequency, in this we have used the Multi phase boost Topology for boosting the dc link voltage. that dc link voltage integrated with isolated full bridge inverter& output LC filter circuit.

2. AC-DC POWER SUPPLY (160V,40A DC)

Description: My Team had developed a DC power supply with a three-phase 415V AC Input,50Hz which provides 160V of fixed DC output Voltage and Current of 40A We have used the isolated full bridge converter topology.

3. HIGH VOLTAGE POWER SUPPLY (24KV,2mA DC)

Description: my Team had developed a high voltage power supply by using voltage multiplier circuit concept.

4. DC-DC POWER SUPPLY (24V, 6A DC)

Description: My Team had developed a DC power supply with 400V DC Input, which provides 24V of Fixed DC output Voltage and Current of 6A We have used the FLYBACK Topology for generating 24V ,6A for low power supply application.

PERSONAL SKILLS

- Able to Balance Analytical and action-orient mindset focusing both on Quality and Progress/Finalization.
- I can work Independently and at same time collaborate with the Stakeholders across the Organization.
- I myself a Team Player with a Robust Personality & a Positive Attitude Personality
- I'll perform the Assigned Tasks from Idea to Final Implementation and Documentation.

DECLARATION

I hereby declare that all the above particulars are true & correct to the best of my knowledge.

Place: Hyderabad
Date:

Signature
(G.KARTHIK KUMAR)