SHIVAM BHARTI

Power Electronics Engineer

01/09/1998

New delhi

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Objective

To learn and develop my technical skill to find efficient way in achieving team goals.

Interests

Playing Cricket · Playing Badminton Listening Music · Cooking .

Certification

Design Of Power Electronics Converters - NPTEL.
Microcontroller Embedded C Programming: Absolute Beginners - UDEMY

Skills

MATLAB SIMULINK

Proteus

Embedded C

Python

The skill scale is from 0 (Fundamental Awareness) to 5 (Expert).

Experience/Projects

Present — Feb/2022

Project 5-Closed loop control of BLDC motor. NIT-DELHI,India/New Delhi

- The objective is to control the speed and reduce torque ripple.
- PID controller is used as speed regulator and Hysteresis current control to generate reference current and to control switching of VSI.
- Hall sensors are used to sense the positioning of the rotor.

Jan/2022 — Jan/2022

Project 4-Simulation and analysis of buck converter in CCM and DCM . NIT-DELHI, India/New Delhi

- The project aim is to study the behavior and nature of the various waveforms.
- The output/input voltage and current nature is observed by varying duty ratio ,inductor value and load resistance.
- Transfer function is calculated considering idea conditions.
- The input /output ratings are 48V-24V,2A.

Nov/2021 — Sep/2021

Project 3-Simulation of Buck-Boost converter in closed loop using PID controller. NIT-DELHI, India/New Delhi

- The project aims at the close loop control of Buck-Boost Converter using PI as controller to reduce the steady state error.
- The model is simulated in MATLAB Simulink.

April/2015 — Sep/2014

Project 2-Commercial Power Saver GNIOT, India/Greater Noida

- The objective is to reduce the wastage of electrical energy due to low power factor.
- The power factor is improved near to unity by using capacitors.
- Capacitor are used to provide the required reactive power to improve power factor nearer to unity.
- Hardware is implemented by using ARDUINO as microcontroller.

May/2014 — Feb/2014

Project 1-Smoke detector and Fire alarm GNIOT, India/New Delhi

- To detect the smoke and fire in order to prevent the accident due to fire.
- Hardware is implemented on PCB .

Education

Present — Aug/2021

M.Tech.PED National Institute of Technology Delhi(NIT-Delhi)
My key area of interest is DC-DC converter Design, EV Charging, EV motor control.
9.8 SGPA.

Jul/2019 — Aug/2015

B.Tech. Electrical Engineering Greater Noida Institute Of Technology
I secured 82.82% as a top scorer of the Branch.

May/2015 — May/2012

Senior Secondary . Science +2 S.R.S High School Barhaiya
I secured 75% in my intermediate exam.

2007-2012

High School. V.B Balika Vidhyapeeth Lakhisarai
I secured 9.0 CGPA in 10th standard.

Awards

2015-2016

Certificate of excellence.
Academics-B.Tech -1sr Year for scoring the 2nd highest marks in EE branch.

2010

Certificate of participation in 18th science congress.
To find out how rich is the soil in vidyapeeth and problem related with it.