

SHIVAM BHARTI

Power Electronics Engineer









Objective –

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

Interests —

Cooking · Playing Cricket · Playing Badminton · Listening Music.

Skills —

MATLAB SIMULINK

Python

VLSI(Physical Design)

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

Experience/Projects

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



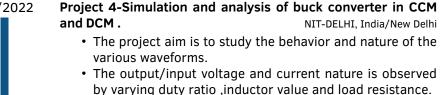
• The objective is to control the speed and reduce torque ripple.

- 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

Nov/2021

Sep/2021



tical conditions.

Jan/2022

• The input /output ratings are 48V-24V,2A.

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.

Transfer function is calculated considering idea and prac-

The model is simulated in MATLAB Simulink.

April/2015 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.

May/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

Feb/2014

Sep/2014

National Institute of Technology Delhi(NIT-Delhi) M.Tech.(PED) Present My key area of interest is DC-DC converter Design, EV Charging, EV motor control, VLSI (Physical Design). Aug/2021 9.30 CGPA. B.Tech. (Electrical Engineering) Greater Noida Institute Of Technology 2015-2019 82.84% with honours. Senior Secondary . (Science) +2 S.R.S High School Barhaiya 2012 2015 75% 2007-2012 High School. V.B Balika Vidyapeeth Lakhisarai 9.0 CGPA.

Awards

2015-2016 Certificate of excellence.

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

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