

# SHIVAM BHARTI

Power Electronics Engineer





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# Objective —

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

# Interests —

Cooking · Playing Cricket · Playing Badminton · Listening Music.

### Skills —

Linux

MATLAB SIMULINK

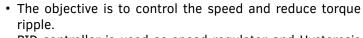
Python VLSI(Physical Design)

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



 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.

Feb/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 and practical conditions.
- The input /output ratings are 48V-24V,2A.

Jan/2022 Nov/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.

Sep/2021 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 capac-
- Capacitor are used to provide the required reactive power to improve power factor nearer to unity.

Sep/2014 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

Present

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

EV motor control, VLSI (Physical Design).

Aug/2021

9.34 CGPA.

2015-2019

B.Tech. (Electrical Engineering) Greater Noida Institute Of Technology 82.84% with honours.

2012 2015

Senior Secondary . (Science) 75%

+2 S.R.S High School Barhaiya

2007-2012

High School. 9.0 CGPA.

V.B Balika Vidyapeeth Lakhisarai

**Awards** 

2015-2016

Certificate of excellence.

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

Certificate of participation in 18th science congress.

To find out how rich is the soil in vidyapeeth and problem associated with it.

2010