

SHIVAM BHARTI

Power Electronics Engineer





+91 9113341151

bhartishivam2019@gmail.com

in linkedin.com/in/shivam-bharti-34a5b4168

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 —

MATLAB SIMULINK

Python

VLSI(Physical Design)

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

Experience/Projects

Feb/2022

Jan/2022

Jan/2022

Nov/2021

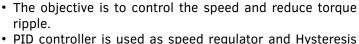
Sep/2021

Sep/2014

May/2014

Feb/2014

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



 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.

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.

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 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.

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 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, VLSI (Physical Design).

Aug/2021 9.34 CGPA.

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

2012 2015 Senior Secondary . (Science) +2 S.R.S High School Barhaiya 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 FF branch

2010 Certificate of participation in 18th science congress.

To find out how rich is the soil in vidyaneeth and problem as

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