



# 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

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.

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 capacitors.
- 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 .

Feb/2014

## 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).  
9.30 CGPA.

Aug/2021

2015-2019

**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

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.

2010

**Certificate of participation in 18th science congress.**

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