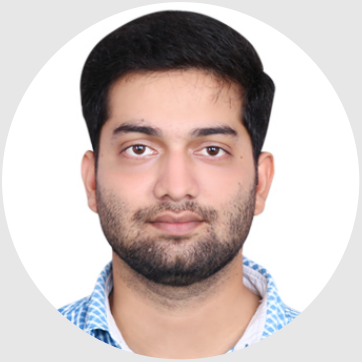

SHIVAM BHARTI

Power Electronics Engineer

01/09/1998

New delhi

+91 9113341151

bhartishivam2019@gmail.com

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)

Linux

Innovus

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

Experience/Projects

present – Aug/2022

Project 5-DC Nano-grid with power management system. 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.

May/2022 – Jan/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.

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.

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,VLSI(Physical Design).
9.34 CGPA.

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
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.

2010

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