SHIVAM BHARTI

Power Electronics Engineer

ℹ 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

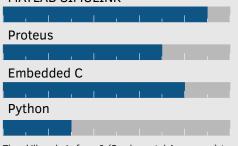Cooking · Playing Cricket · Playing Badminton · Listening Music.

Certification

Design Of Power Electronics Converters - NPTEL.
Microcontroller Embedded C Programming: Absolute Beginners - UDEMY

Skills

MATLAB SIMULINK

Proteus

Embedded C

Python

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.
Feb/2022	• Hall sensors are used to sense the positioning of the rotor.
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 conditions.
Jan/2022	• The input /output ratings are 48V-24V,2A.
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.
Sep/2021	• 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.
Sep/2014	• Hardware is implemented by using ARDUINO as microcontroller.
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.
Feb/2014	• 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.
Aug/2021	9.48 SGPA.
2015-2019	**B.Tech. (Electrical Engineering)** Greater Noida Institute Of Technology
	82.82% 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.