



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

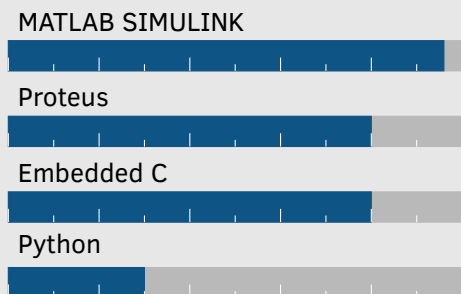
Playing Cricket · Playing Badminton
Listening Music · Cooking .

Certification

Design Of Power Electronics Converters - NPTEL.

Microcontroller Embedded C Programming: Absolute Beginners - UDEMY

Skills



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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. Hardware is implemented by using ARDUINO as micro-controller.
Sep/2014	
May/2014	Project 1-Smoke detector and Fire alarm GNIOT, India/New Delhi <ul style="list-style-type: none"> 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. 9.8 SGPA.
Aug/2021	
Jul/2019	B.Tech. Electrical Engineering Greater Noida Institute Of Technology I secured 82.82% as a top scorer of the Branch.
Aug/2015	
May/2015	Senior Secondary . Science +2 S.R.S High School Barhaiya I secured 75% in my intermediate exam.
May/2012	
2007-2012	High School. V.B Balika Vidhyapeeth Lakhisarai I secured 9.0 CGPA in 10th standard.

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 related with it.