

SATYAJEET DESHMUKH

 [GitHub.com/SatyajeetDeshmukh](https://github.com/SatyajeetDeshmukh)

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EDUCATION

Indian Institute of Technology Indore

Junior Undergraduate (3rd Year)

Department of Electrical Engineering

July 2017 - Present

Overall CPI: 8.48/10

(upto 5th Semester)

SKILLS

Electrical: Analog, Digital, Power Electronics, PCB Design, Lab Hardware Testing

Programming: DS and Algorithms, C, C++, Python, Matlab, Git

Other: Web Design, Bash, LaTeX, German, Basic Finance

EXPERIENCE

All Project Files are available on GitHub.

Power Electronics PCB Design

March 2019 - August 2019

Summer Project under Dr. Amod Umarikar

IIT Indore

- Deployed a closed-loop three mode (Buck, Boost, Buck-Boost) SMPS of rating 100 watt which used a PI controller.
- Involved use of simulation tools and then final hardware testing after build completion.

Object Tracking

May-June 2018

Part of Robocon 2018

IIT Indore

- Program to track the position of the ball and give a trail as well as estimate the distance of the ball from webcam using given focal length.

Transmission Lines Matlab GUI

April 2019

Course Project under Dr. Saptarshi Ghosh

IIT Indore

- Made a GUI for plotting voltage as a function of time and space in Matlab based on theoretical model of transmission lines.

Simulation of BMS

August 2018

Round 1 of Shell Eco-marathon

IIT Indore

- A simple simulation of a Battery Management System using Matlab and Simulink models.

Signals and Systems Frequency Analysis in Matlab

April 2019

Course Project under Dr. Ram Bilas Pachori

IIT Indore

- A simple Matlab signal processing project involving use of FFT and filter design.

TECHNICAL INTERESTS

- Power Electronics
- Control Theory
- Embedded Systems

ACADEMIC RECORD

- Ranked 3770 among 160 thousand students in JEE Advanced 2017 who were eligible from 1.2 million students who took the JEE Main.
- Scored 83.38% in 12th HSC in 2017 and 91.80% in 10th SSC in 2015, both Maharashtra state boards.

RELEVANT COURSES TAKEN

Core Courses

Electronic Devices
Power Electronics
Signals and Systems
Analog Circuits
VLSI Systems & Technology
Microprocessors & Digital Systems Design
Control Systems*
Digital Signal Processing*
Digital Communications*
Power Systems*

* ongoing

Math Courses

Real Analysis
Linear Algebra and Differential Equations I
Complex Analysis and Differential Equations II
Numerical Methods
Probability and Random Processes