

# DEEPANSHU SINGH

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## CARRIER OBJECTIVE

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To work in an organization with positive work driven environment where I could freely drive my knowledge and skills to fulfill the goals of the organization.

## EDUCATION

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### National Institute of Technology- Delhi(2021-2023)

Masters of Technology, Department of Electrical Engineering

8.43 CGPA

### Dr.Akhilesh Das Gupta Institute of Technology and Management(2016-2020)

Bachelor of Technology, Department of Electrical and Electronics Engineering

8.24 CGPA

### Laxmi Public School(2016)

XII(Senior Secondary), CBSE.

89%

### Laxmi Public School(2014)

X(Secondary), CBSE

9.4 CGPA

## WORK EXPERIENCE

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### Cirkitree, Delhi

July 2019

Research and development of electronic circuits and designing their circuit board layouts.

### Adeep My IT solution Pvt Ltd, Delhi

March,2020

Provide remote surveillance and control over equipments using Raspberry Pi based servers.

## PROJECTS

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### Weather Station

IoT based Weather Monitoring Device with Wind Speed, Wind Direction, Temperature and Pollution level monitoring.

### Steady Output and Fast Tracking MPPT for Perturb and Observe

Algorithm development and implementation for fast tracking of Maximum power point of a solar panel with zero steady state oscillations.

### Linear Quadratic Regulator on Atmega2560

A self balancing robot based on Linear Quadratic Regulator using Arduino Mega and the remote control was designed based on X-bee module for wireless controlling.

### Wireless Power Monitoring Switch

This switch works on local server based on RaspberryPi 3b+ and uses Home assistant server to integrate with Google Assistant using MQTT protocol.

### Class E chopper

Designing and implementation of an automated class E chopper in MATLAB/simulink .

### Thirsty Crow

This path finder, line following bot uses IR transmitters and receivers along with Atmega2560 micro-controller to follow a path of black line to pick and drop pebbles from certain positions in the arena.

## TECHNICAL STRENGTHS

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### Modeling and Analysis

MATLAB, EagleCAD, EasyEDA and Proteus Design Suite.

### Development Boards

Arduino Uno, ESP8266, NucleoF446RE, Atmega2560 and Raspberry Pi.

### Programming Languages

C, C++(Coding Ninjas Certified)

## ACHIEVEMENTS

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Finalists for E-yantra Robotic Competition 2018 at IIT-Bombay.

Winner of Internal Hackathon for Smart India Hackathon 2020.