

DEEPANSHU SINGH

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CAREER OBJECTIVE

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

National Institute of Technology- Delhi(2021-23) Master of Technology, Department of Electrical Engineering	8.43 CGPA
Dr.Akhilesh Das Gupta Institute of Technology and Management(2016-20) 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

Cirkitree (Circuit Designing, C++) Research and development of electronic circuits and designing their circuit board layouts.	July 2019
Adeep My IT solution Pvt Ltd (C++, IoT) Provide remote surveillance and control over equipments using Raspberry Pi based servers.	March,2020

PROJECTS

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 RapsberryPi 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

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

Finalists for E-yantra Robotic Competition 2018 at IIT-Bombay.
Winner of Internal Hackathon for Smart India Hackathon 2020.