DEEPANSHU SINGH

Github:github.com/inghanshu312   (+91)9650719201

LinkedIn:www.linkedin.com/in/deepanshu-singh-45b068162   deep4nshu@gmail.com

CARRIER OBJECTIVE

To start working 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)
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

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 other automated features using Raspberry Pi based servers.

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 tracking 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 also the remote control was designed based on X-bee module for wireless control.
Wireless Power Monitoring Switch
This switch works on local server based on RapsberryPi 3b+ and use 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 finding 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++

ACHIEVEMENTS

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

Winner of Internal Hackathon for Smart India Hackathon 2020.