DEEPANSHU SINGH

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CAREER OBJECTIVE

I want to work in an organization where I can use my technical and soft skills to gain experience and knowledge of real-world applications.

EDUCATION

National Institute of Technology Delhi(2021-23)
Master of Technology, Department of Electrical Engineering 8.74 CGPA
Guru Gobind Singh Indraprastha University(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

INTERNSHIP EXPERIENCE

Intel: Working as a Firmware Developer. June, 2022 - Present

- Gained knowledge about **BIOS boot flow** and built modules for different phases.
- Helped debug various code issues related to **PCIe**.
- Played a part in developing **Config space decoder utility** and removed roadblocks for various project teams.

PUBLICATION

Singh, D and Kumawat, M. "Electric Vehicles Scenario in India: Trends, Barriers, and Scope," 2022 IEEE 10th Power India International Conference (PIICON), Delhi, India, 2022, pp. 01-06.

TECHNICAL STRENGTHS

Modeling and Analysis	MATLAB Simulink, Proteus, VS Code.
Development Boards	Arduino Uno, ESP8266, NucleoF446RE, Atmega2560 and Raspberry Pi.
Programming Languages	C, C++, Python.

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.
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.

ACHIEVEMENTS

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