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Programming
•C++ | •C | •Python | •Shell | •MATLAB

Simulation
•Simulink | •Proteus

Applications
•Microsoft Office | •LaTex

Language
•Hindi | •English

Soft Skills
•Communication | •TeamWork | •Leadership | •Adaptability

Deepanshu Singh

Firmware Developer

Objective Seeking to leverage academic and practical acumen gathered in clinching opportunities in a reputed company for both personal and professional growth.

Internship Experience

June 2022 - May 2023, *Firmware Developer*, Intel India Pvt. Ltd
Responsibilities:

- Responsible for developing and debugging **BIOS code** using **embedded C.**
- Responsible for developing **shell utility** using **python scripting**.
- Worked with **PCIe devices** for potential issues.
- Well-versed in **BIOS boot flow** and **EDK2 build process**.
- Responsible for working as a **point of contact** with various stakeholders regarding the deployment of the **shell utility**.
- Responsible for saving a lot of validation effort and recipient of a department-level award.

Education

2021 - 2023, National Institute of Technology Delhi **8.74 CGPA**
Master of Technology

Projects:

- Algorithm for **optimized electric vehicle** charging using **day-ahead electricity price** and **battery degradation cost** to reduce the charging cost.
- **Perturb and observe based maximum power point tracking** algorithm for fast-tracking of maximum power point of a solar panel with zero steady-state oscillations.
- Presentation on **scenario of electric vehicle in India** on **research scholar day 2022** in NIT-Delhi.

2016 - 2020, Guru Gobind Singh Indraprastha Univerity, Delhi **8.24 CGPA**
Bachelor of Technology in Electrical and Electronics Engineering

Projects:

- Development and designing of an **Iot based weather station using ESP8266** with wind speed, wind direction, temperature, and pollution level monitoring.
- **PID controller-based** Line Following Bot using atmel studio.
- **Linear quadratic regulator** based self balancing bot using atmega2560.
- **Wireless power monitoring switch** using **raspberyyPi 3b+** and **home assistant server** to integrate with google assistant using **MQTT protocol**.

2015 - 2016, CBSE, Laxmi Public School **89%**
Senior Secondary

- Winner of the **best house captain** award in the inter-house competitions.

2013 - 2014, CBSE, Laxmi Public School **9.4 CGPA**
Secondary

- Winner of the **best athlete award** and secured the first position in **science quiz**.

Certifications

- C++ Programming Language -Coding Ninjas.
- Foundation course of Embedded Systems with ARM Cortex and STM32 -Udemy.
- MATLAB Onramp -Mathworks.

Publications

- Singh, D; 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.

Achievements

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