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Programming
- **C**
- **C++**
- **Python**
- **Shell**
- **MATLAB**

Simulation
- **Simulink**
- **Proteus**

Applications
- **Microsoft Office**
- **LaTex**
- **Visual Studio**
- **Git**

Language
- **Hindi**
- **English**

Soft Skills
- **Communication**
- **TeamWork**
- **Leadership**
- **Adaptability**

Certifications
- **C++**
- **MATLAB Onramp**
- **ARM Cortex and STM32**

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 in Power Electronics and Drives

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.

Responsibilities:
- Managed the placement responsibilities for a year while working as a **placement coordinator**.
- Fulfiled the role of a **teaching assistant** by teaching B.tech 3rd-year and 4th-year students.

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 and pathfinding 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, Delhi **89%**
Senior Secondary
- Winner of the **best house captain** award in the inter-house competitions.

2013 - 2014, CBSE, Laxmi Public School, Delhi **9.4 CGPA**
Secondary
- Winner of the **best athlete award** and secured the first position in **science quiz**.

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.

Achievements

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