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Address

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Deepanshu Singh

Embedded Engineer

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

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.
- Perturb and Observe based Maximum Power Point Tracking algorithm for solar panels.

2016 - 2020, Guru Gobind Singh Indraprastha University, Delhi

8.24 CGPA

Bachelor of Technology in Electrical and Electronics Engineering

Projects:

- Development and designing of an Iot based Weather Station using ESP8266.
- PID controller-based Line Following Bot using Atmel Studio, which made it to the final of Eyanta Robotics Competition 2019.
- Linear Quadratic Regulator based Self Balancing Bot using Atmega2560.
- Wireless Power Monitoring Switch using RaspberryPi 3b+.

2015 - 2016, CBSE

89%

Senior Secondary

2013 - 2014, CBSE

9.4 CGPA

Secondary

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.
- Working 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.

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.

Softwares

Simulation

Simulink | •Proteus

Programming

MATLAB | •C++ | •C | •Python | •Shell | •Arduino

Applications

Microsoft Office | •LaTex

Languages

- Hindi- Mother Tongue
- English-Proficient User