Hemchandra Jha

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LinkedIn: - www.linkedin.com/in/hemchandra-jha-36a973280 GitHub: - https://github.com/CaptJack05

Portfolio:- https://port-folio-jade-eight.vercel.app/

Objective_

A passionate and inquisitive 2nd-year Electronics and Communication Engineering undergraduate, driven by a strong interest in research, innovation, and entrepreneurship. Actively seeking opportunities to explore and contribute to cutting-edge technologies, with a focus on robotics, IoT, and Artificial Intelligence. Eager to blend technical expertise with entrepreneurial spirit to create impactful, real-world solutions.

Year	Qualification	Institution	Performance
2023 - 2027	B.Tech (Electronics and	Maharaja Agrasen Institute Of	present
	Communication Engineering)	Technology, New Delhi	
2022	Class 12th — CBSE Board	Arwachin Bharti Bhawan Sr. Sec. School, New Delhi	83 %
2020	Class 10th — CBSE Board	Arwachin Bharti Bhawan Sr. Sec.	89.4%
		School, New Delhi	

Work Experience _____

NDRF (R&D Project)

Jan'25 – Jun'25

 Developed a fully Autonomous Drone for search and rescuer mission and Emergency Medical and Food Supply

IIT - Delhi (Research Intern)

June'25 - July'25

• Working on developing Swarm based drone technology and AI driven system

Technofarm, Muzaffarnagar (*Intern***)**

May'23-Sept'23

- https://www.technofarm.in/#
- Worked in developing a website and inventory management system.
- Designed remote based Home automation.

Technical Projects

Autonomous Drones

- Worked on developing versatile AI drive autonomous Drones.
- Skills used: ROS 2, controller s, Filters, Machine Learning, Sensor Fusion and Simulation.

Custom Remote controlled Drone

- Developed a drone and the remote that communicate using Radio frequency.
- Skills used: C++, Arduino, Designing, RF communication.

IoT based Home Automation System

- Developed automation system based around ESP 32 controller
- Skills used: C++, API, PCB Designing, Web Hooks.

Code for Challenge

- Multipurpose Ed-Tech website to provide interactive coding environment
- Skills used: React, Spring Boot, MongoDB.

Scholastic Achievements

• Cognizance 2025(IIT – Roorkee) : Winner at Sky maneuver Event

Innovation Mela 2025(MAIT-Delhi) : Best Innovation of the Year(1st Position)

Promatu 2025(IIT – Jodhpur) : 2nd Runner Up in Battel Bot.
 SARC -2025(IIT – Madras) : Made in to Top 10 finalist teams

Platform Worked

Operating Systems: Windows, Ubuntu

Programming Skills : C, C++, Python, Java, JavaScript

Database : MySQL, MongoDB

Web Designing : JavaScript, CSS, NodeJS, Express, MongoDB & Git
 Software Skills : VS Code, GitHub, Postman, Arduino, ROS2

• Frame Work : ReactJS, Spring boot

Hobbies_

Chess, Flute, Poem writing, Music, Exploration