**Hemchandra Jha 3nd Year Undergraduate | +91 9818096872|** [**hcjha05@gmail.com**](mailto:hcjha05@gmail.com)

**LinkedIn: -** [**www.linkedin.com/in/hemchandra-jha-36a973280**](http://www.linkedin.com/in/hemchandra-jha-36a973280) **GitHub: -** [**https://github.com/CaptJack05**](https://github.com/CaptJack05)

**Portfolio:-** [**https://port-folio-jade-eight.vercel.app/**](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.

# EDUCATIONAL QUALIFICATIONS

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

**NDRF** *(R&D Project)* Jan’25 - Present

* Developed a fully Autonomous Drone for search and rescuer mission and Emergency

Medical and Food Supply

**IIT – Delhi** *(Research Intern)* Present

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

**Technofarm, Muzaffarnagar (***Intern)* May’23-Sept’23

* [https://www.technofarm.in/#](https://www.technofarm.in/)
* Worked in developing a website and inventory management system.
* Designed remote based Home automation.

## Technical Projects

### [Autonomous Drones](https://broyadi23.wixsite.com/my-site-1/post/drone-dynamics-project-overview)

* 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](https://broyadi23.wixsite.com/my-site-1/post/drone-dynamics-project-overview)

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

## [IoT based Home Automation System](https://broyadi23.wixsite.com/my-site-1/post/google-assistant-based-home-appliances-control)

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

[**Code for Challenge**](https://www.codeforchallenge.online/)

* 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