

# HARSHDEEP SINGH

ECE undergrad passionate about solving real-world problems through impactful software and scalable systems, with projects spanning robotics and full-stack development.

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[GitHub](#) | [LinkedIn](#) | [Leetcode](#)

## EDUCATION

B.TECH(Electronics and Communication Engineering)	2023-2027	Delhi Technological University, New Delhi	8.58
CBSE (Class XII)	2023	Sri Guru Nanak Public School, Adarsh Nagar, Delhi	96.4 %
CBSE (Class X)	2021	Sri Guru Nanak Public School, Adarsh Nagar, Delhi	95.4 %

## EXPERIENCE

### Web Development Intern, USIP DTU, Delhi

Sep 2024-Nov 2024

- Transformed the Alumni Affairs Department's outdated **PHP** site into a modern, responsive **ReactJS** platform during my USIP internship at DTU.
- Designed the interface in **Figma** and styled with **Tailwind CSS** to create a fresh, user-friendly look that enhances alumni engagement and usability.

## ACADEMIC PROJECT

### NAMBI 2.0 – A Mars Rover Prototype | [Link](#)

- Built and managed the **software stack** for Nambi 2.0, mars rover prototype using **ROS**, **Arduino IDE**, **Gazebo**, **RViz**, and **OpenCV**. Developed **autonomous navigation** and **teleoperation** capabilities with refined control algorithms and **computer vision** for obstacle detection and path planning. Collaborated with teammates and maintained the codebase using **Git** for version control and streamlined development. Ensured seamless software-hardware integration for optimal performance. Achievements include **4th place** in the **International Rover Challenge** and the **Best Project Management Award**.

### PORTFOLIO SITE | [Link](#) | NextJS, Tailwind CSS, Framer Motion

- Built a responsive portfolio with **Next.js**, **Tailwind CSS**, and **Framer Motion** to showcase my projects and skills. Features a modern design with smooth animations for a professional, engaging user experience.

### ROBLOGS - A Blogging Website | [Link](#) | Django, Python, Bootstrap

- Built a scalable **full-stack** blogging platform with **user authentication**, **CRUD APIs**, and role-based **admin control** using **Django** and **SQLite**.

### INFERNO - A Portfolio website of Team Inferno | [Link](#) | HTML, CSS, JavaScript

- Built Team Inferno DTU's website using **HTML**, **CSS**, and **JavaScript** to showcase Mars Rover projects, team structure, and achievements. Designed for easy navigation to support recruitment and enhance team visibility in robotics.

## TECHNICAL SKILLS

**Programming:** Python, C++, JavaScript

**Development:** React, Next.js, Node.js, MongoDB, MySQL, Django, Tailwind, Flutter

**Tools:** Git, ROS, Gazebo, OpenCV, Vercel

**Relevant Coursework:** Data Structures & Algorithms, Computer Architecture, OOPS

## POSITIONS OF RESPONSIBILITY

### President, DTU Bhangra

Aug 2025 - Present

- Leading **strategic operations**, **team leadership**, **event execution**, **sponsorship management**, **digital branding**, and **cross-team collaborations** to drive organizational growth and sustained competitive success.

## ACHIEVEMENTS

- Rank 1 - HDLbits, Completed all 182 problems on HDLbits.
- 4th Place – International Rover Challenge (2024)
- Top 5 - Tinkercase (Hardware Track Hackathon), IEE DTU (2024)