

Varun Hirani

Indian Institute of Technology, Goa

Third Year Undergraduate, **Electrical Engineering**

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Education

BTech, Electrical Engineering , Indian Institute of Technology Goa	CGPA: 7.64/10	2023 – Present
Class 12, GSEB , Solaris Public School, Ahmedabad	Aggregate: 72.15%	2022 – 2023

Projects

Drone-Mounted Radar for Snow Depth Mapping	(Feb 2025 – Ongoing)
<ul style="list-style-type: none">Developing a lightweight GPR system under the guidance of Dr. Bidhan Pramanick for snow-depth mapping in the Himalayan region.Learning microcontroller-SDR integration (ADALM-PLUTO + Raspberry Pi Pico) for real-time snow thickness estimation.	
Movie Web App using React and Express.js [GitHub] [LIVE]	(Apr 2025 – May 2025)
<ul style="list-style-type: none">Developed a movie web application with a React.js frontend.Integrated TMDB API for movie search and dynamic content rendering.Tech Stack: React.js, JavaScript, JSON API, HTML, CSS, Express.js	
Personal Portfolio Website using HTML, CSS, and JavaScript [GitHub] [LIVE]	(Jan 2025 – Mar 2025)
<ul style="list-style-type: none">Designed and deployed a personal portfolio site.Built from scratch using HTML, CSS, and JavaScript for optimal performance and minimal dependencies.Added interactive features such as smooth scrolling and a working contact form.Tech Stack: HTML, CSS, JavaScript	

Skills

Programming Languages:	C++, JavaScript, MySQL, VHDL, HTML, CSS
Technical Tools:	Git, LaTeX, Quartus, ModelSim, Arduino, Raspberry Pi Pico, DE-10 Lite
Tech Stack:	React.js, REST API, Raspberry Pi Pico 2W, ADALM-PLUTO SDR
Relevant Coursework:	Introduction to Programming, Calculus, Network Analysis, Signals and Systems, Digital Circuits, Analog Circuits, Communication Systems, Electrical Machines
Soft Skills:	Critical Thinking, Teamwork, Communication, Problem-Solving, Time Management, Adaptability

Positions of Responsibility

Inter-IIT Contingent Leader	Led the IIT Goa team at the 57th Inter-IIT Sports Meet at IIT Indore; managed coordination and logistics.	(Dec 2025)
Chess Representative, IIT Goa	Organized chess tournaments, managed club activities, and trained the Inter-IIT team.	(Aug 2024 – Jan 2025)

Achievements

<ul style="list-style-type: none">LeetCode Rating: 1656 (Top 16.71%, 11 contests) [Profile]Completed Data Structures and Algorithms course from Physics Wallah [Certificate]	(May 2025)
	(Jan 2025)

Extracurriculars & Hobbies

<ul style="list-style-type: none">Chess – Inter-IIT team, BITS SPREE, MVP Chakravyuh'24 [Certificate]Badminton – Inter-IIT 2024, Chakravyuh 2024 participant
