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Portfolio

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.28 (Current)	2022-Present
Senior Secondary	CBSE Board	96.6%	2022
Secondary	CBSE Board	95.2%	2020

EXPERIENCE

- **Chegg** Nov. 2022 - ongoing
freelance
Chegg Subject Matter Expert
– Answered student queries and provided detailed solutions in the field of mathematics.

PROJECTS

- **Solinas Product Design Challenge** Dec. 2023
Link
Inter IIT Tech Meet 12.0, IIT Madras
– Developed a novel leadscrew based telescopic mechanism that can extend upto 5m while being no larger than 0.4 m in diameter.
– Performed the calculations regarding the length, diameter and pitch of the screws and nuts.
– Used fusion 360 to design cad models.
- **Portfolio Website** Dec. 2023
Github , Website
Self Project
– Created a dynamic Portfolio Website ensuring responsiveness and an engaging user experience.
– **Technologies Used:** The website is build using **HTML, CSS** and **JavaScript**
– **Features:** Light-Dark theme toggling
- **Project Yuvaan, Robotics Club** Feb. 2023 - ongoing
Robotics Club, Technical Board, IIT Guwahati
– A conceptual model of a Mars rover made for **ISRO** Robotics Challenge, International Rover Challenge and European Rover Challenge.
– Developed a small-scale robotic system specifically engineered for conducting tests related to autonomous navigation, path planning and obstacle avoidance.
– Designed CAD models of wheel, chassis.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, JavaScript
- **Web Technologies:** HTML, CSS
- **Operating System:** Windows, Linux*
- **Miscellaneous:** GIT, Fusion 360, ROS(noetic)*, Simescale, Arduino * Elementary proficiency

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Calculus, Differential Equations, Real Analysis
- **Computer Science:** Introduction to Computing
- **Electronics Core:** Digital Circuits, Analog Circuits, Signals and Systems

ACHIEVEMENTS AND EXTRA-CURRICULARS

- **Inter IIT Tech Meet 12.0:** Secured **2nd** position in low prep product design challenge among **22 IITs**.
- **Nationals:** Participated in National Level Lawn Tennis Competition
- **Branch Change:** Changed Department from Mechanical Engineering to Electronics and Electrical Engineering
- **JEE Advanced:** Secured AIR 4524 among 0.15 million candidates
- **JEE Mains:** Secured AIR 6729 among 1.1 million candidates
- **Organiser:** Organised **Techniche**, the largest Technical Fest of Northeast India, worked in Robotics module