



RIYA CHAUHAN

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About Me

Enthusiastic Electronics Engineering student with hands-on experience in robotics and embedded systems. Eager to apply strong problem-solving and collaboration skills in a dynamic technical role. Passionate about designing innovative hardware solutions and continually expanding technical knowledge.

Projects & Achievements

Abu-Robocon India - 2025

Secured 10th rank nationally in ABU Robocon India. Designed circuits, integrated sensors, and programmed robot hardware; collaborated across teams to deliver a competitive, fully functional robot under tight deadlines.

Self-Balancing Robot (2024-2025)

Designed and built a custom self balancing robot with unique mechanical design, using mecanum wheels for omnidirectional movement and self-balancing capabilities. Focused on real-time embedded control and stability optimization.

Hexapod Robot (2023-2024)

Built a six-legged walking robot with multiple gait patterns, enabling forward, backward, and lateral movement. Focused on embedded control, mechanical stability, and responsive real-time operation.

FINALIST OF ROBOFEST 4.0 GRAND FINALE

Voltage Fluctuation in Electrical Power Distribution system (2022-2023)

Developed a system to regulate voltage fluctuations in power distribution, ensuring consistent output under varying input conditions. Designed for improved performance, reliability, and cost-efficiency compared to traditional stabilizers, with successful simulation and practical validation.

SSIP AAZADI KA AMRIT MAHOTSAV HACKATHON -2022 GRAND FINALE

Internship

Gayatri Hi-Tech Security System (June - 2024)

Designed a 433 MHz wireless PCB using KiCAD, including schematic capture, layout, and Gerber file generation. Gayatri Hi-Tech Security System is a leading manufacturer of electronic security systems, including CCTV, fire alarms, and access control solutions, based in Anand, Gujarat.

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Housing society, Tilaknagar,
Bhavnagar, 364001

EDUCATION

Diploma in Electrical Engineering

Sir Bhavsinhji Polytechnic Institute

2020 - 2023

B.Tech in Electronics Engineering

Birla Vishwakarma Mahavidyalaya

2023 - 2026

SKILLS

- Enthusiastic in Robotics
- Embedded system
- Microcontroller Programming
- PCB designing
- Teamwork
- Problem Solver

LANGUAGE

English

Hindi

Gujarati