

Hritik Kumar

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EDUCATION

Sardar Vallabhbhai National Institute of Technology

Bachelor of Technology in Electrical Engineering, CGPA: 8.15

Surat, Gujarat, India

Nov. 2022 – July 2026

R.R. Inter College

Intermediate of Science, score: 85.8%

Hajipur, Bihar, India

May. 2019 – March 2021

B.D. Public School

CBSE class -10th, score: 96.2%

Hajipur, Bihar, India

2019

PROJECTS

Line Follower Robot

- Developed a line-following robot using IR sensors and an Arduino Uno to detect and follow black or white lines on contrasting surfaces.
- Integrated L293D motor driver IC with Arduino programming to control the movement of DC motors for smooth and precise path-following.

TELE and Auto Operated BOT

- Worked collaboratively with a team to design and develop a Tele Auto Operated Bot capable of remote control and interaction within the Robot Operating System (ROS) framework.
- The bot was operated using keyboard inputs and could be tested in both simulation and on physical hardware.
- Strengthened understanding of the ROS framework, Arduino UNO programming, ultrasonic sensors, and electrical wiring.

Fire Detector Alarm System

- Developed a fire alarm circuit using a BC547 transistor and an infrared sensor to detect infrared radiation emitted by fire.
- Engineered a responsive system that activates a buzzer upon fire detection, ensuring real-time hazard alerts.

SKILLS

Programming Languages: C, C++, MATLAB, ROS

Softwares: MS Word, MS Excel, Canva, ETAP(Intermediate), MATLAB Simulink

Soft Skills: Project Management, Leadership, Coordination, Communication, Goal-oriented, Strategist

ACHIEVEMENTS

- Secured **District Rank 2** in CBSE 10th grade examinations.
- Ranked in the **top 3%** among 1 million+ students in the JEE Mains exam.

POSITIONS OF RESPONSIBILITY

Training and Placement Coordinator

Feb. 2025– Present

- Coordinated placement activities and organized training sessions to enhance student employability.

Executive, ACM (Coding club of SVNIT)

Oct. 2023– Present

- Actively contributed to fostering a coding culture within the institute by organizing hackathons like DotSlash and events like Hour of Code, along with coding challenges and workshops.

Head, Documentation Committee (Sparsh)

Jan. 2025– Present

- Managed and streamlined all documentation processes for the annual cultural fest, including event reports, MoUs, and MoMs, ensuring seamless coordination and execution.