Last updated in October 2025

Saurabh Kumar

saurabhkr132@zohomail.in 6205635406 profile-saurabh.vercel.app saurabh-kumar-17a202262
saurabhkr132

About

Dedicated B.Tech student in Electronics and Communication Engineering with a focus on avionics. Interests span hardware prototyping, FPGA design, IoT development, and embedded systems, with experience in C++, Verilog, and MATLAB. Passionate about applying technology to create impactful solutions in space and embedded systems.

Education

B.Tech in ECE — **Indian Institute of Space Science and Technology, Thiruvananthapuram** — Nov 2022 – May 2026
- CGPA: 8.04/10

Senior Sec. (Class XII, CBSE) — **Gyansthali, Gaya** — 2019 - 2021
- Percentage: 93.2%

Secondary (Class X, CBSE) — **Elegant Public School, Gaya** — 2015 - 2019
- Percentage: 98.4%

Experience

SAC, ISRO, Intern — Ahmedabad, Jun 2025 – Jul 2025
- Electrical testing and characterization of SAMRH707 Microcontroller
- Resource allocation, pin mappings and IG-XL test program development for Device Interface Board (DIB) to interface the DUT with the Automated Testing Equipment (ATE)
- Custom schematic design of DIB for interfacing of DUT with the ATE in CADSTAR

Robotics Club, IIST, Vice President — IIST, TVM, Feb 2024 – Oct 2024

College Fests, Volunteer — IIST, TVM, Oct 2023, Oct 2024
- Organizer of technical events like Maze Solver, Robosoccer, C-Cubed
- Conducted robotics workshop for schools in TVM for Techfest, Cultural fest and IEEE

Projects

Quiz Buzzer
- Design of quiz buzzer using 555-timer as part of Analog Electronics course

Mini Bots Development
- Development of robotics projects including WiFi-controlled Car, Maze Solver bot and Line Follower

8-bit CPU — GitHub link
- Development of 8-bit processor in Verilog and its implementation on Xilinx PYNQ FPGA

Sanjog — App Hardware App-Source
- Development of a hardware-based matchmaking device using ESP32 and its mobile app

Handwriting Generator — WebApp Model
- Development of a GAN model for the generation of custom handwriting

Skills

Languages: C++, Python

Technologies: MATLAB, Verilog, Arduino, 8085, 8086, React