

SAURABH KUMAR

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PROFILE

As a third-year Electrical and Communication Engineering (ECE) undergraduate at IIST, I am enthusiastic about applying my growing technical skills to real-world projects. I thrive on challenges and am dedicated to actively contributing to team efforts. I am committed to embrace challenges and collaborate effectively in a dynamic environment.

WORK EXPERIENCE

Flight Software Engineer, SSPACE

- Working in FSW subsystem for InspireSat 3 program at Small-Spacecraft Systems and Payload Centre (SSPACE)

Former Vice-President, JeevYantra

- Worked as Vice-President at Robotics Club IIST, JeevYantra

Workshops

- Conducted robotics workshop for various schools in Thiruvananthapuram for Techfest Conscientia, Cultural fest Dhanak and IEEE Student Chapter IIST
- Also attended workshop on AI and machine learning at IISc Bengaluru

Events Organizer and Participant

- Organized RoboSoccer, Maze Solver and C-Cubed events at IIST TechFest
 - Participated in TechFests events in colleges around Thiruvananthapuram for Maze Solver and Line follower bots
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PROJECTS

Robotics Projects

- Worked on various robotics projects under Robotics club including WiFi-controlled Car, Maze Solver bot, Line Follower bot, Reaction Wheel and Inverted Pendulum

Analog Project

- Designed quiz buzzer as end-semester project using 555-timer as part of Analog Electronics course

Control System project

- Designed control dynamics and image processing for Parrot Minidrone competition using MATLAB and Simulink

Web development

- Worked on the website development of Techfest of IIST, Conscientia 2024

Economics Project

- Worked on analyzing the dataset of MSP of food and non-foodcrops in India
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SKILLS

- Basic Robotics - Arduino, ESP8266 NodeMCU, PID Controllers, Sensors - IR, Ultrasonic, Gyro and Accelerometer, Motors - DC, Servo, Stepper
 - Programming in C++ and Python
 - Assembly language programming with microprocessors - 8085, 8086, and microcontroller - 8051 and PIC16F877A
 - Basics of Data Structure and Algorithms with C++
 - Basics of VLSI design
 - Web Development using React and NextJS
 - Game Development Pygame
 - Vector graphics using Illustrator
 - 3D Modelling using Blender
 - Logical thinking and problem solving
 - Languages - Hindi, English, Magahi, Sanskrit
 - Active member of Robotics, AI, Yoga, Art, IKS and Chess clubs of IIST
 - Hobbies: Robotics, Programming, Sketching, Chess, Gaming and Yoga - Sudarshan Kriya, Surya Namaskar
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EDUCATION

B.Tech in Electronics And Communication Engineering (Current)

Indian Institute of Space Science and Technology | Thiruvananthapuram, Kerala | July 2026

- Specialization in Avionics

Current CGPA: 7.89

AISSCE

Gyansthali | Gaya, Bihar

Percentage: 93.2%

AISSE

Elegant Public School | Gaya, Bihar

Percentage: 98.4%

ACCOMPLISHMENTS

- Best Student Award at Elegant Public School farewell
- Award for District level 10th board ranker
- Participated in various robotics events at TechFest
- Won third prize in Arduino Hackathon organized during Techfest, Conscientia 2023 of IIST