

Aditya Sanjay Yadav

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EDUCATION

Bangalore Institute of Technology, Bengaluru
Bachelor of Engineering in Electronics and Telecommunication

2022 – 2026
CGPA: 7.6/10

TP Bhatia College of Science, Mumbai
12th Grade

2020 – 2022
Percentage: 90.3%

St. Thomas High School, Mumbai
10th Grade

2019 – 2020
Percentage: 85.8%

PROJECTS

Self-Stabilizing 2-Axis Platform Using PD Controller

Bangalore Institute of Technology, Dept. of Electronics and Telecommunication (2024–2025)

- Designed and implemented a real-time, self-stabilizing 2-axis platform using Arduino UNO, MPU6050 IMU sensor, and MG996R servo motors.
- Developed a Proportional-Derivative (PD) control loop with a complementary filter for accurate tilt angle estimation.
- Integrated accelerometer and gyroscope data with low-pass filtering; tuned PD gains ($K_p=1.05$, $K_d=0.05$ roll; $K_d=0.07$ pitch) for optimal response.
- Demonstrated real-time embedded control and mechatronics principles; applicable in robotics and gimbal stabilization.
- **Awarded 2nd Prize** in the department for outstanding project performance.

TECHNICAL SKILLS

Languages: Basic knowledge of C, Python

Electronics: Circuit design, hardware prototyping

Tools: Arduino, MPU6050, Servo Motors

Other: Basic video editing

ACTIVITIES & INTERESTS

Hobbies: Playing chess, reading science fiction books