

YASH SATISH SANIKOP

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OBJECTIVE

Robotics and Embedded Systems enthusiast seeking Robotics / Embedded Intern roles with hands-on experience in autonomous robots and competition-grade systems.

EDUCATION

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| B.E. Computer Science and Engineering Agnel Institute of Technology and Design, Goa | Jul 2023 – Jun 2027 CGPA: 8.82 / 10 |
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SKILLS

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| Microcontrollers | Arduino, ESP32 |
| Programming | C/C++, Python |
| Robotics | Line Follower, Maze Solver, Sumo, Soccer Bots |
| Hardware | Sensors, Motor Drivers, RC Systems, Power Circuits |
| Tools | Arduino IDE, Keil uVision, VS Code |

EXPERIENCE

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| Robot Inspector (QC) FIRST Tech Challenge (FTC) | Jul 2024 <i>Goa, India</i> |
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- Inspected 40+ competition robots for compliance with FTC safety and build regulations
- Verified electrical and mechanical integrity to ensure fair play and arena safety

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| President RoboClub, AITD | Jul 2024 – Present <i>Goa, India</i> |
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- Led robotics workshops and competitions attended by 100+ students
- Mentored students in robot design, circuit building, and embedded programming
- Built and competed with autonomous robots in inter-college and national-level events

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| Core Organizing Team – Robotics Events Techurja 2025 (National-Level Technical Fest), AITD Goa | Apr 2025 – Apr 2025 |
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- Organized and managed major robotics competitions including Robo Wars, Maze Solver, and Robo Race
- Coordinated arena setup, rule enforcement, safety checks, and live troubleshooting during events
- Handled participation of 50+ teams from multiple institutions across India

SELECTED PROJECTS

Autonomous Maze Solver Robot: Built a robot capable of navigating dynamic mazes using sensor-based decision logic.

Line Follower Robot: Designed a high-speed line follower using IR sensors and PID-based motor control.

Sumo & Soccer Robots: Developed competition-ready robots focusing on torque optimization, traction, and response time.

ACHIEVEMENTS

Served as Resource Person for a Maze Solver Robot workshop; mentored 30+ students on robot design and control logic