

# YASH SATISH SANIKOP

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## OBJECTIVE

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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

## SKILLS

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

## EXPERIENCE

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**Robot Inspector (QC)**  
FIRST Tech Challenge (FTC)

Jul 2024  
Goa, India

- Inspected 40+ competition robots for compliance with FTC safety and build regulations
- Verified electrical and mechanical integrity to ensure fair play and arena safety

**President**  
RoboClub, AITD

Jul 2024 – Present  
Goa, India

- 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

**Core Organizing Team – Robotics Events**  
Techurja 2025 (National-Level Technical Fest), AITD Goa

Apr 2025 – Apr 2025

- 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

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**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

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