

# YOGANANTH GR

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Prefinal Year Student at IIIT Sri City

## PROFESSIONAL SUMMARY

I'm an ECE Undergraduate student at IIIT Sri City, passionate about Embedded systems and Internet of Things. I enjoy working hands-on with electronics, hardware design, and real-world project development, and I actively collaborate on technical initiatives within student clubs. My current research focuses on designing a real-time navigation system for an Autonomous Underwater Vehicle.

## EDUCATION

- Indian Institute of Information Technology Sri City** 2023 - Present  
*Electronics and Communication Engineering* Current CGPA : 7.80
- Narayana Junior College, Brahmadevam** 2021 - 2023  
*Higher Secondary Education* Percentage : 96.2%
- Narayana EM HS Pedarupalli Nellore, Dhanalakshmipuram** Passed in 2021  
*Secondary Education* Percentage : 98.6%

## PROJECTS

- Seat Belt Safety System** Aug - Dec 2024
  - Designed a smart seatbelt system aimed at minimizing injuries during vehicle collisions.
  - Implemented automatic belt tightening upon detecting an accident to secure the passenger.
  - Integrated Bluetooth module to send immediate alerts to emergency contacts.
  - Enhanced passenger safety through real-time response and automated emergency communication.
- Smart Traffic Management System (Ongoing)** NexSync Club
  - Developing an IoT-enabled smart traffic management system to monitor real-time road and traffic conditions for optimized route planning.
  - Integrating sensor nodes for data acquisition on traffic density, road quality, and environmental parameters.
  - Collaborating with the AI/ML and web teams to deliver a user-friendly mobile interface offering intelligent, data-driven navigation assistance.

## EXPERIENCE

- IIIT Sri City** May 2025 - Present  
*Undergraduate Researcher*
  - Developing a Vision and Sonar-based multi-sensor fusion system for real-time AUV navigation using filtering and feature-level fusion techniques.
  - Addressing challenges in sensor drift, underwater feature recognition, and system stability to enhance navigation accuracy in dynamic environments.
- IIIT Sri City** Aug 2025 - Present  
*Class Representative - Student Academic Council*
  - Representing the class in Class Committee meetings.
  - Coordinating to address student concerns and provide feedback for academic and administrative matters.
  - Assisting in organizing class activities and promoting a positive and disciplined environment.

## SKILLS

- Languages :** C, C++, Embedded C, Python(Basics)
- Tools & Platforms :** MATLAB, Arduino, Raspberry Pi, LTspice, Keil uVision
- Version Control :** Git, GitHub

## ADDITIONAL INFORMATION

- Languages**
  - English (Proficiency)
  - Tamil (Mother Tongue)
  - Telugu