# Gowtham Ammanamanchi

gowthamofficial1963@gmail.com

## EDUCATION

### B.TECH, SRM INSTITUTE OF SCIENCE & TECHNOLOGY

Chennai, India | Sep 2021 -- Aug 2025
**Branch:** Electronics and Communication Engineering
**CGPA:** 8.11 / 10
**Final Year Multidisciplinary Project:** Awarded First Prize at institutional level

## LINKS

Github:// **GowthamA1963**
LinkedIn:// **gowthama**
Portfolio: **gowthama1963.github.io**

## COURSEWORK

### UNDERGRADUATE

Analog & Digital Circuits
Microprocessors & Microcontrollers
VLSI Design
Digital Signal Processing
Wireless Communication Systems
Embedded Systems
Control Systems
Robotics
Python Programming

## SKILLS

C++ • Python • ROS 2 • Open-RMF •
Nav2 • Gazebo
SLAM • Path Planning • Control Systems
• OpenCV
STM32 • Arduino • ESP32 • Raspberry Pi
Linux (Ubuntu) • Git • GitHub • Docker

## LANGUAGES

English (Fluent) — IELTS Academic: 7.5
Hindi (Native)
Telugu (Native)

## PROJECTS

### EMMA: ENHANCED MULTITASKING MEDICAL ASSISTANT

Feb 2024 -- May 2025 | SRM Institute of Science and Technology, India
Designed a ROS 2-based autonomous medical assistant for patient registration and vital sign monitoring. Implemented sensor-based health monitoring, automated medicine dispensing, and cloud-based data logging with mobile access.

### GREENVAULT: SOLAR-POWERED SMART STORAGE FOR SUSTAINABLE AGRICULTURE

Aug 2024 -- Sep 2024 | SRM Institute of Science and Technology, India
Developed an IoT-enabled agricultural storage system with temperature, humidity, and gas monitoring. Implemented spoilage detection and remote monitoring using sensor data.

### MAZE SOLVING ROBOT

Sep 2023 -- Oct 2023 | SRM Institute of Science and Technology, India
Developed an autonomous maze-solving robot using sensor-based obstacle detection and path planning, with optional manual control.

## EXPERIENCE

### PETPOOJA

Robotics Software Engineer (Apprentice)
Sep 2025 -- Present | Ahmedabad, India
Development of ROS 2-based software for autonomous food service robots. Implementation of mobile robot navigation using Nav2, perception pipelines, and DDS communication. Exposure to embedded systems, Open-RMF for multi-robot coordination, and on-site robot deployment and testing.

### DECELER VIBROTEK CONTROL LTD.

Junior Robotics Engineer (Intern)
Jun 2025 -- Sep 2025 | Chennai, India
Programming and simulation of collaborative robots using Python, ROS 2, and MoveIt 2. Implementation of SLAM-based mapping and navigation for autonomous mobile robots. Integration and testing of grippers and REST APIs for industrial automation systems.

## PUBLICATIONS & PATENTS

• Automation in Healthcare: A Robotic Approach for Patient Registration, Vital Sign Tracking, and Chatbot Interaction
*Sayantan Panda, Sankhadeep Dutta, Gowtham Ammanamanchi, Samiappan Dhanalakshmi*
*In: Computing, Communication and Intelligence, Taylor & Francis, 2025*

• A System and Method for Multitasking Medical Assistance
Application No.: 202441066981 | Filed: 04.09.2024 | Published: 27.12.2024

• A Storage System for Agricultural Produce and a Method Thereof
Application No.: 202541019684 | Filed: 05.03.2025 | Published: 21.03.2025