VIISNU ANAND S

ELECTRONICS AND COMMUNICATION ENGINEER

+91 9443742244 | viisnuanand.s@gmail.com | http://www.linkedin.com/in/viisnu-anand

viisnuanand.github.io

SUMMARY

An enthusiastic Electronics and Communication Engineering student with a deep passion for technology and innovation. Skilled in embedded systems, with practical experience gained through academic projects and real-world applications. A proactive team player and fast learner with a problem-solving mindset, committed to continuous growth and eager to contribute meaningfully to engineering advancements and social development

EDUCATION

Kumaraguru College of Technology 2022-2026

B.E Electronics and Communication Engineering

Higher Secondary Education (HSC) 2020-2022

Sri Chaitanya Techno School ,Salem

Secondary School Education (SSLC) 2018 - 2020

Sri Chaitanya Techno School,Salem

INTERNSHIP

Pricol Limited (Corporate Manufacturing Engineering (CME) Department June 2025

- Worked on developing a low-cost wire colour sequence detection system using Jetson Orin Nano, Arducam, and OpenCV. Gained hands-on exposure to PLC automation, industrial R&D workflows, contributing to automation solutions in automotive manufacturing.

PROJECTS

Smart India Hackathon 2024–Winner of the Problem Statement (ISRO)

- Designed an AI-Powered DVB-S2X Signal Detection & Classification. Designed a real-time signal classification system for DVB-S2X waveforms. Utilized deep learning and SDR-based processing to detect and classify modulation types.

  Technologies: ROS, ZED 2i, Jetson Orin Nano, Pixhawk, OpenCV, LiDAR, Python.

IRoC-U 2025 (ISRO Robotics Challenge)

- Cleared the Elimination Round, ranking among the Top 37 teams in India, by developing an AI-driven UAV with SLAM, LiDAR, 3D vision, and sensor fusion for GNSS-denied navigation, precision mapping, and autonomous landing in Mars-like terrains.

  Technologies: ROS, ZED 2i, Jetson Orin Nano, Pixhawk, OpenCV, LiDAR, Python.

Wire Color Detection System (Internship Project)

- Designed a vision-based color sequence detection system for automotive wire harness verification. Achieved 35% inspection time reduction. Technologies: Jetson Orin Nano, OpenCV, Python

  Technologies: ROS, ZED 2i, Jetson Orin Nano, Pixhawk, OpenCV, LiDAR, Python.

Gesture-Controlled Robot – Mini Project

- Developed a Raspberry Pi-based robot controlled via real-time hand gestures using camera input. Implemented gesture recognition using OpenCV and MediaPipe with Flask-based wireless control.

  Technologies: Raspberry Pi 4, Python, OpenCV, Flask.

Surveillance Pi Bot – Mini Project

- Developed a live-streaming surveillance robot using Raspberry Pi and Pi Camera for remote monitoring applications. Implemented a Flask-based web interface for real-time video streaming and motion control. Integrated L298N motor driver for precise movement and efficient remote operation.

  Technologies: Raspberry Pi 4, OpenCV, Flask, HTML/CSS, L298N Motor Driver

SOFT SKILLS

- Time Management
- Leadership
- Teamwork
- Problem Solving

TECHNICAL SKILLS

- C Programming
- Embedded Systems
- NVIDIA Boards
- GNU Radio

LANGUAGES KNOWN

- Tamil
- English
- Hindi - Beginner Level
- French - Beginner Level

CERTIFICATIONS AND ACHIEVEMENTS:

Awards/Activities:

- Award for Extracurricular Excellence – Honored by KCT for contributions beyond academics.

Certifications:

- NPTEL Certification– Introduction to IoT
- Emerging Trends in IoT Cloud Computing (workshop)
- VLSI Essential Concepts and Detailed Interview Guide – Udemy