

Manu Venkata Sai Pappala

Rajahmundry | Email: manuvenkatasai@gmail.com | Phone: +91-6302676745 | LinkedIn : <https://www.linkedin.com/in/manu-venkata-sai-024938235>

Career Objective

Enthusiastic and detail-oriented Embedded Engineer with hands-on experience in STM32 microcontrollers, Zigbee communication, PCB design, and embedded C/Python programming. Strong background in hardware (SMD soldering, circuit design) and system integration. Passionate about building a career in Embedded Systems and VLSI, contributing innovative solutions to real-world applications.

Education

B.Tech in Electronics & Communication	Aditya College of Engineering	2021 – 2024	CGPA: 7.5/10
Diploma in Electronics & Communication	Government Polytechnic College	2018 – 2021	85%
SSC (10th)	SuryaDeep English Model School	2017 – 2018	CGPA: 9.7/10

Internship Experience

Embedded Engineer Intern | EmbeHome Automations | Apr 2024 – Sep 2024

- Worked on Smart Home Automation System using STM32 (32-bit) microcontroller and Zigbee protocol for wireless communication.
- Implemented appliance control via remote, sensors, touch interface, and mobile application, integrated through a central hub.
- Hands-on experience with DC relays, SMD & through-hole soldering, PCB footprints, and firmware development for microcontrollers.
- Strengthened skills in embedded C programming and hardware-software integration.

Projects

- Smart Home Automation (Internship Project): Developed a multi-interface automation system enabling remote, sensor-based, and mobile control of appliances via Zigbee and STM32.
- PCB Design & Prototyping: Designed and assembled PCBs for embedded applications, including soldering SMD components and testing circuit functionality.

Technical Skills

- Programming: C, Python
- Embedded Systems: STM32, Microcontrollers, Sensors, Relays, Zigbee Communication
- Hardware: PCB Design, SMD/Through-hole soldering, Circuit Debugging
- Operating Systems: Linux (basic administration)
- Tools: Keil, STM32CubeIDE, Proteus, Multisim
- Additional: AWS (basic exposure), SQL (basic exposure)