

KANUKUNTLA RAJASHEKHAR

Innovator ~ Engineer

Electronics and Communication Engineering

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SUMMARY

I am seeking an opportunity where I can use my skills and knowledge to grow an organization and I am eager to contribute to innovative projects in the field of electronic device design and development.

SKILLS

Technical in: Embedded C, Microcontroller's, RISC-V, UART, I2C, SPI, RFID, M2M, IoT, Sensors, PCB Design, Debugging Tools & Git Hub

Tools: NI Multisim, KiCAD, VS Code with PlatformIO,

EDUCATION

2022 - 2025	University College of Engineering Kakatiya University, Kothagudem Electronics and Communication Engineering Aggregate: 7.73 CGPA	B.Tech
2019 - 2022	SVS Group of Institution, Hanumakonda Electronics and Communication Engineering Aggregate: 7.5 CGPA	Diploma
2018 - 2019	SR High School, Warangal Aggregate: 8.8 GPA	SSC

TRAINING & INTERNSHIP

2024	VLSI System Design (VSD) Intern Completed 1-month internship on " RISC-V & VLSI using VSDSquadron Mini board " at VLSI System Design. VSDSquadron Mini Board Libraries for Arduino IDE Developed custom I2C LCD and Servo motor libraries for the VSDSquadron Mini board, enabling easy integration and control within the Arduino IDE. This project enhanced the board's functionality for embedded systems and RISC-V applications.	VLSI System Design
2024	Embedded Systems and IoT Intern Completed 1-month internship on " Embedded Systems and IoT " at Sapna IoT Solutions. ESP8266 DHT Server Developed a web-based server using the ESP8266 module to monitor and display real-time temperature and humidity data from a DHT sensor. Implemented Wi-Fi connectivity for remote access and user interface design for seamless monitoring.	Sapna IoT Solutions
2022	Arduino Embedded Systems Trainee Completed 6-month industrial training on " Arduino Embedded Systems " at Smart Technologies. IR-Based Home Automation using Arduino Designed and implemented a home automation system using Arduino uno and an IR remote to control various household appliances. Developed the system to enable wireless control, improving convenience and energy efficiency by automating lighting, fans, and other devices.	Smart Technologies

PROJECTS

Machine-to-Machine (M2M)	Rotary Tell-Tale Roof Convergence Monitoring System Developed a prototype for underground mines using ESP8266 to monitor changes in roof convergence and displacement in real-time. The system enhances safety by detecting early signs of structural instability, with integrated Machine-to-Machine communication for data transmission and remote monitoring.
Internet of Things	Smart Energy Meter Developed a Smart Energy Meter using Arduino IoT Cloud and ESP32 module, enabling real-time monitoring of KWH consumed and associated costs. The system features data storage for historical usage analysis, and provides users with accurate insights into energy consumption. Designed to improve energy efficiency and facilitate better resource management.

Embedded Systems	Municipal Corporation Smart-E-Dustbin Designed and developed a prototype smart dustbin leveraging Arduino technology to enhance waste management in municipalities, and hospitals. Integrated ultrasonic sensors for garbage level monitoring. The system aims to promote smart waste disposal practices and improve operational efficiency.
PCB Design	Basic PCB Design of Buck Converter (LM2596) Designed a PCB for a buck converter using the LM2596 voltage regulator. The project involved schematic capture, component placement, and routing using the KiCad 7 tool.
PCB Design	PCB Design for IR-Based Home Automation System Developed a PCB layout for an IR-based home automation system. The project involved creating a schematic and PCB design using the Kicad 7 tool.

AWARDS & ACHIEVEMENTS

2025	Finalist in DIR-V Hackathon Finalist in DIR-V Hackathon Product Development, organized by Digital India RISC-V in IIT Madras, for the product of an "IoT-based Smart Energy Meter" Using VSD Squadron mini with ESP32.	IIT Madras
2024	Finalist in Srushti Sangamam Ideathon Finalist in Srushti Sangamam Ideathon, organized by ACIC CBIT, for pitching an "IoT-based Smart Energy Meter" to optimize energy usage in residential and industrial sectors.	ACIC-CBIT
2023	Finalist in RISC-V Based Product Development Hackathon Achieved Finalist status in the 2023 RISC-V Based Product Development Hackathon for innovatively developing a "Municipal Corporation Smart-E-Dustbin" using embedded C.	VLSI System Design
2023	Telangana State Innovation Cell (TSIC) Presented my innovation "Municipal Corporation Smart-E-Dustbin" at the "Intinta Innovator Exhibition 2023" organized by Telangana State Innovation Cell (TSIC).	TSIC

CERTIFICATIONS

2024	Contribution for VSD in Semicon India	VLSI System Design
2024	Semicon India Quiz	Semicon India
2024	RISC-V & VLSI using VSDSquadron Mini board (Intern)	VLSI System Design
2024	Embedded Systems and IoT (Intern)	Sapna IoT Solutions
2023	Printed Circuit board (pcb) Design	C-i ² RE,KITS
2023	Nanotechnology & Embedded Systems	SiliconTech
2022	Arduino Embedded Systems (Trainee)	Smart Technologies

HOBBIES & INTERESTS

Playing badminton and volleyball

Developing innovative projects to solve societal problems

DECLARATION

I do hereby declare that the information given above is true to the best of my knowledge and belief.

Place:

Date:

KANUKUNTLA RAJASHEKHAR