

RISHIGESHA

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SUMMARY

Detailed-oriented and results-driven Electronics and Communication Engineer with designing, developing, and testing electronic systems and communication devices. Skilled in embedded systems, circuit design, signal processing, and telecommunications. Proficient in tools such as MATLAB, VHDL, Verilog, and PCB design software. Strong understanding of analog/digital electronics, RF communication, and IoT technologies. Adapt collaborating in cross-functional teams and delivering innovative, cost-effective engineering solutions.

EDUCATION

B.E.,Electronics and Communication Engineering	May 2025
Anna University,	7.5CGPA
Arjun College Of Technology	
Higher Secondary	
S.H.N.V.Hr.sec School Sivakasi Virudhunagar	July 2021 80%

TECHNICAL SKILLS

- Programming Languages:** Verilog, MATLAB, C, Embedded C, Python, C++, Java, Assembly language (8051/ARM)
- Embedded Platforms:** Arduino, ESP-32, STM32, ARM Cortex-M, PIC, FPGA, VHDL
- Tools & Technologies:** UART, SPI, I2C, PWM, RTOS (FreeRTOS), Blynk, Firebase
- Design Tools:** Eagle, Proteus, PCB Design, Multi sim
- Concepts:** Analog/Digital Electronics, Signal Processing, IoT, RF Communication
- Automation:** Machine Learning, Data Acquisition System
- Soft Skills:** Project Management, Problem Solving, Decision Making, Project Ownership, Team Collaboration, Presentation Skill, Analytical Thinking, Risk Assessment
- Familiar With:** HTML, CSS, SQL

PROFESSIONAL EXPERIENCE

NEURAL ARC GLOBAL PRIVATE LIMITED : EMBEDDED SYSTEM & IOT INTERN	JULY 2024 – Aug2024
<ul style="list-style-type: none">Programmed real-time embedded systems using Embedded C on ARM Cortex-M microcontrollers.Designed and integrated sensors (temperature, PIR, LDR) and actuators (DC/Stepper motors).Developed UART serial communication and implemented LCD-based interfaces.Improved system efficiency by implementing interrupt-driven sensor data collection.	
GATEWAY SOLUTIONS: PYTHON AND DATA ANALYSIS INTERN JULY 2023 – JULY 2023	

- Implemented core algorithms including sorting, searching, recursion, and dynamic programming using Python.
- Applied Python data structures such as lists, dictionaries, sets, and tuples to perform efficient data analysis and problem-solving tasks.

ACADEMIC PROJECTS

ROOM AUTOMATION SYSTEM

- Engineered an intelligent automation system using Arduino and ESP32 with temperature, motion, and light sensors.
- Used IF-ELSE logic and hardware interrupt to trigger fans, lights, and alarms automatically.
- Integrated Firebase and Blynk for real-time cloud control and monitoring from mobile devices.
- Ensured system resilience with fail-safe modes and manual override during controller failure.
- Achieved 20% energy savings via presence-based automation logic.

PARTICIPATION & ACHIEVEMENTS

- Awarded Gold Medal** at the **QCFI 7th Chapter Convention** for excellence in innovation and quality improvement.
- Successfully completed the “Space Technology and Awareness” certification program conducted by **ISRO**, gaining insights into India’s advancements in space research and satellite technology.
- Participated in the **MSME Entrepreneurship Development Program** organized by the **Government of India**, focusing on business development and innovation in technology sectors.
- Certified course in VLSI