

RISHIGESHA

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SUMMARY

Detail-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 incross-functional teams and delivering innovative, cost-effective engineering solutions

EDUCATION

B.E.,Electronics and Communication Engineering

Anna University,

Arjun College Of Technology

May 2025

7.5CGPA

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(Free RTOS), 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

- Programmed real-time embedded systems using Embedded Con ARM Cortex-M microcontrollers.
- Designed and integrated sensors (temperature, PIR,LDR)and actuators(DC/Stepper motors).
- DevelopedUARTserialcommunicationandimplementedLCD-basedinterfaces.
- Improvedsystemefficiencybyimplementinginterrupt-drivensensordata collection.

GATEWAY SOLUTIONS: PYTHON AND DATA ANALYSIS INTERN

JULY 2023 – JULY2023

- Implementedcorealgorithmsincludingsorting,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

- Engineer edan intelligent automation system using Arduino and ESP32 with temperature, motion,and light sensors.
- Used IF-ELSE logic and hardware interrupt 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 over ide 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

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