

GIRIJA S

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CAREER OBJECTIVE

A final year Electronics and Communication engineering student with a passion for designing intelligent hardware solutions. Proficient in embedded systems with eagerness to push the boundaries of technology. Excited to contribute fresh ideas and grow in a challenging environment that fuels creativity and technical excellence.

EDUCATION

B.E- Electronics and Communication Engineering	2022-Present	Tiruchengode
K.S.R College of Engineering		
Current CGPA - 8.87		
HSC	2021-2022	Tiruchengode
K.S.R Matric Higher Secondary School		
74.3%		

CORE SKILLS

- Microcontroller Platforms : Arduino, ESP32, Raspberry pi Pico.
 - Communication Protocols : I2c, SPI, UART, CAN.
 - IOT and ML : IOT fundamentals and basic ML
 - Programming skills : C, Embedded C
 - Embedded Systems : Sensor interfacing, real-time data acquisition.
 - Software Tools : Arduino IDE, Blynk, Wokwi, TinkerCad, EasyEDA, Proteus

EXPERIENCE

Neura -Machine learning

- Acquired foundational knowledge of machine learning concepts and algorithms
 - Explored supervised and unsupervised learning techniques, data pre-processing, and model evaluation.
 - Gained practical exposure to implementing basic machine learning models using Python.
 - Worked on JONOSPHERE and PJMA INDIAN DIABETES dataset

PROJECTS

Temperature Monitoring Systems

Built an embedded system using Arduino to monitor temperature in real-time. Integrated the system with a cloud platform (ThingSpeak) for real-time monitoring and data analysis of temperature and humidity based on sensor data.

Pet Activity Tracker

Built a wearable Pet Activity Tracker using ESP32 and QMI8658 IMU sensor. Displayed real-time motion data on an I2C LCD screen. Integrated a lithium battery and charging module for portable use.

Hybrid CRC-BCH Error Detection and Correction System

Designed and simulated a VLSI architecture for high-speed data communication using CRC and BCH codes in Xilinx Vivado, achieving improved speed and reduced power consumption.

CERTIFICATIONS

- Masterclass in IOT - Novitech
- PCB designing - Chip Crafts
- Machine learning basics - Neura AI
- Cloud Computing(Elite) - NPTEL

EXTRA CURRICULAR ACTIVITIES

- Served as Master of Ceremonies for technical seminars and innovation events.
- Presented a technical paper titled “Augmented Reality vs Virtual Reality” at Kongu Engineering College.
- Participated in workshops on Artificial Intelligence and IoT applications in engineering.
- Actively involved in technical seminars and academic events related to electronics and communication.

LANGUAGES

- Full professional proficiency - English, Tamil
- Limited professional proficiency - Telugu