

GULSHAN KUMAR RANA

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TRAINEE ENGINEER

TECHNICAL SKILLS

- C & Embedded C
- C++
- Linux
- git
- Data Structures and Algorithm
- TCP|IP
- ARM
- RTOS

PROFESSIONAL TRAINING

- Embedded System- Vector India, Bengaluru (6 months)
- Gained knowledge in C, C++, Embedded C, DS, and ARM under the training.

PROJECTS

- Student DataBase using C | Vector** June 2025
- Developed a Student Database using C, Data is stored in a file , it has the ability of Add , Edit, Fetch and Delete.
 - Improved String operation , prevention of buffer overflow and memory leak.
- Custom String Datatype using C++ | Vector** Aug 2025
- Used Operator overloading, with custom friend function's.
 - Improved String operation
- IOT using LPC2129 | Vector** Sept 2025
- Collect and Analyse sample Data using UART, and handling the server using TCP.
 - Creation of Local HTTP server, using C socket.
 - Implementation of Interrupt to toggle the sensor and led of micro controller from the web in a local network.

EDUCATION

- Higher Secondary | Kendriya Vidyalaya (Sadiq Nagar) New Delhi** April 2019
- Studied PCM with Computer Science
- BTech ECE | RJIT , Tekanpur, Gwalior (MP)** Oct 2020 - June 2024
- CGPA: 7.2
 - **Major Project** : Real Time Object Detection Mechanism using arduino nano, servo motor and Ultra Sonic sensor.

AWARDS & ACHIEVEMENTS

- Vector Embedded Hackthon, 3rd Prize (2025)
Real Time IOT for monitoring sensor and controlling device over network through WEB.