

TEJAS GATKAL

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Recent graduate with a Bachelor's in Electronics and a CDAC certification in Embedded System Design. Skilled in **embedded C programming, microcontroller development (STM32, ESP32)**, circuit design, and **IoT system integration**. Hands-on experience with **MQTT**, and **hardware/software co-design** through academic projects. Seeking opportunities to contribute to innovative projects and further develop technical expertise in a dynamic work environment.

SKILLS

Embedded C	C Programming Language	STM32	UART, SPI, I2C Protocols
ARM Cortex	Data Structures	Operating System	IoT
Microcontroller Programming (STM32, ATmega328p, ESP32)			MQTT CAN Protocol

PROJECTS

Dashboard Design Using CAN Protocol

Apr 2024 - Jul 2024

- **Real-time Monitoring & Display:** Provides immediate access to critical vehicle parameters such as speed, RPM, fuel level, and temperature, enabling optimized performance and driver awareness.
- **Proactive Maintenance & Issue Detection:** Utilizes sensors and advanced data processing to ensure accurate monitoring, early issue detection, and proactive maintenance for improved efficiency and safety.
- **Seamless Communication & User Interface:** Integrates **CAN protocol** for reliable data transmission between two **STM32 microcontrollers**, offering a user-friendly interface for smarter and safer vehicle operation.

Design & Implementation of Smart Water Level Indicator & Valve Controller

Jul 2022 - May 2023

- **Real-time water level monitoring:** Utilizes a **BC547 transistor** for sensing and an **ATmega328p microcontroller** for processing to ensure efficient water management.
- **Automatic control functionality:** Prevents overflow by shutting off the system at **100%** capacity and ensures a continuous water supply below **25%** capacity.
- **Remote accessibility:** Integrates an **ESP8266 Wi-Fi** module and a **web interface** for convenient, remote monitoring and control.

EDUCATION

Post Graduation Diploma in Embedded System Design

Mar 2024 - Sep 2024

- CDAC – Sunbeam Institute of Information Technology
- Percentage : 69.00

Bachelor of Engineering in Electronics & Communication

Aug 2019 – Jun 2023

- Sant Gadge Baba Amravati University
- Percentage : 64.00

ADDITIONAL INFORMATION

- Languages : English , Hindi , Marathi
- Interest : Playing Cricket