

Shaik Altaf Ahmed

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Summary

Enthusiastic and results-driven Electrical and Electronics Engineering graduate (B. Tech, 2024) with a passion for innovation and a keen interest in embedded systems and automation. Seeking to leverage academic knowledge and hands-on project experience to contribute effectively to a dynamic engineering team.

Technical Skills

Languages: C, Embedded C, C++, Linux, Data Structures, ARM7

Simulation Tools: Proteus

Hardware: LPC21xx ARM7 TDMI-S

Education

Bachelor of Technology (B. Tech) in Electrical and Electronics Engineering

KLR CLG OF ENGINEERING AND TECHNOLOGY |

2020 – 2024

CGPA: 6.65

Higher Secondary Certificate (HSC)

Krishnaveni Junior college |

2020

Percentage: 57%

Secondary School Certificate (SSC)

Bharat public school |

2018

Percentage: 63%

Internship & Training

Electronics Intern – Vector India Pvt. Ltd

[Dec, 2024] – [Aug, 2025]

Gained hands-on experience with Embedded C for interfacing LEDs, LCDs, Keypads, 7-Segment Displays, and communication protocols (**UART, I2C, SPI, CAN**).

Completed mini-projects on real-time sensor data display and peripheral control using microcontrollers.

Projects

REAL TIME VEHICLE STATUS MONITORING USING CAN-

The aim of the project is to enhance vehicle safety and monitoring by using Controller Area Network (CAN) protocol. This system is designed to display critical vehicle parameters such as fuel percentage, indicator status, and airbag status/activation in real time.

LINK: <https://github.com/althaf7777777/Embedded-Project.git>

PC-BASED DATA ACQUISITION SYSTEM WITH FAULT ALERTS

OBJECTIVE:

To design and implement a data acquisition system using the **LPC2148 microcontroller** that continuously monitors temperature using an **LM35 sensor**, timestamps the readings using a **Real-Time Clock (RTC)**, and sends the data to a PC via **UART**. If the temperature crosses a defined threshold, a fault alert is generated and logged

ENHANCED CONTROL AND POWER MANAGEMENT FOR A RENEWABLE ENERGY – BASED WATER PUMPING SYSTEM -

The paper introduces a comprehensive Dynamic analysis for a **renewable Energy** Based water pump. The component of this project is **wind Turbine, power system**, a permanent magnet **synchronous generator**, **[PN SG]**, a water **pumping system**, and a battery.