

Abdul Khalil Gouri

khalilgouri123@gmail.com | 7426811122 | www.linkedin.com/in/abdul-khalil-gouri-480852211

Embedded Engineer while managing multiple roles in a fast-paced startup environment. Proven expertise in handling plant operations, fieldwork, marketing, customer support, service support, product debugging, and delivering cost-effective solutions. Eager to leverage my technical knowledge and versatile skill set to contribute to innovative projects and operational success in a forward-thinking organization.

EDUCATION

Bachelor of Technology in Electrical Engineer

Jodhpur Institute of Engineering and Technology

05/2019 - 07/2023 | Jodhpur, Rajasthan

WORK EXPERIENCE

Embedded Software Engineer- Gurgoan, Haryana

Malitra India Pvt. Ltd.

06/2023 - Present

- Designed, developed, and tested embedded systems for ensuring optimal performance and reliability
- Troubleshoot and debug electric vehicle chargers (AC and DC) to ensure optimal performance and provide timely
- Played a key role in delivering scalable embedded systems solutions for high-impact projects, enhancing product lifecycle and efficiency.

Embedded Software Engineer - Delhi

Mazout Electric.

01/2023-06/2023

- Manuplate GPS, IMU data using sensor & communicate using server SIM 4G connectivity, use communication protocols like -SPI, UART, I2C, USB, RS232.
 - Complete POC level Acoustic Vehicle Alerting System (AVAS).
 - Design a prototype RPI hat multifunction on Altium & EasyEDA.
 - Having hands on experience in C, C++.
-

PROJECTS

- Embedded Control System for EV Chargers**

Engineered embedded control systems for AC chargers with a focus on power management, energy efficiency, and safety compliance.

Microcontrollers (STM32, ESP32) to handle real-time charging operations, including monitoring voltage, current, and temperature to ensure safe and optimal charging performance.

Implemented communication protocols such as **SPI**, **I2C** and **UART** to facilitate real-time data exchange for monitoring.

- Advanced ESP32 Interface Design with DWIN HMI**

Designed an advanced graphical user interface on a DWIN HMI display, interfaced with an ESP32 for enhanced user interaction.

- Remote Monitoring System for Industrial Equipment**

Designed and developed a remote monitoring system for industrial equipment using the SIM7600G-H module. Developed software to communicate with the module using AT commands.

Implemented a web-based interface to display real-time sensor data and send alerts to users in case of equipment failure

- Home Automation System**

Designed a home automation system using the ESP32 controller controlling lighting and other home systems.

SKILLS

Programming Languages: C, C++, Python, Embedded C, SQL, HTML.

Embedded Systems: STM32, Communication, SPI, ESP32.

CERTIFICATIONS

Cipher Schools - Training in Data Science
(01/2022 - 02/2022)