

# Mohammad Bohaddin

9390846732 ◇ bohaddin7509@gmail.com ◇ LinkedIn

## SUMMARY

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### PROFILE

Results-driven Electronics & Communication Engineering graduate specializing in Embedded Systems. Proficient in C, Data Structures, Embedded C, and Linux. Eager to learn new technologies and contribute to innovative software and embedded system solutions.

### EXPERIENCE

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- EPIT Labs Mar '25 — Sep '25  
Hyderabad
- Worked on smart display systems using Raspberry Pi (RPi5) for real-time data visualization and control.
  - Developed and tested applications on an IIoT controller kit, integrating multiple sensors.
  - Gained hands-on experience with GNU Radio basics for signal processing and communication experiments.
  - Explored the fundamentals of drone technology, including flight control, sensor integration, and basic mission planning with Mission Planner software.

### EDUCATION

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- Coursework in Coursework**, Vector India Pvt Ltd Nov '23 — Aug '24
- Embedded Systems, Microcontrollers, C Programming, Digital Electronics.
- B.Tech in Electronics and Communication Engineering**, Samskruti College of Engineering and Technology Aug '20 — Sep '23
- B.Tech in Electronics and Communication Engineering

### PROJECTS

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#### Dashboard Design Using CAN Bus

- Engineered a dashboard system utilizing CAN bus protocol to display engine temperature, fuel percentage, and control of left/right indicators, improving system response time by 15%.
- Successfully executed interrupt-driven indicator responses, communicated with indicator nodes, improving communication efficiency by 10% and managing status displays using Embedded C and LPC2129 architecture.

#### Harmful Gases Detection in Coal Mines

- Engineered a harmful gases detection system for coal mines, utilizing advanced sensors to monitor temperature, gas, smoke, and humidity, resulting in a 95% accuracy in gas detection and timely alerts.
- Developed a data-driven LCD control system, leveraging real-time data to dynamically adjust LCD behaviors based on various conditions.
- Implemented a data analytics module for real-time monitoring, which allowed for predictive maintenance, reducing false alarms by 15% and improving system response time by 10%.

### SKILLS

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**Embedded Systems** Microcontrollers - ARM7TDMI (LPC2148), ARM Cortex-M (STM32), Arduino, ESP32, Raspberry Pi

**Programming** C, Data Structures, C++, Embedded C, Linux System Programming

**Protocols** UART, SPI, I2C, CAN

**Development Tools** Keil uVision, STM32CubeIDE, Proteus, Arduino IDE, GCC, VS Code

### CERTIFICATIONS

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**Coursework in Embedded Systems, Microcontrollers, C Programming, Digital Electronics, Programming Languages C, Data Structures C, Embedded C, Linux System Programming** Sep '24