

Mohammed Musaib

Electronics & Communication Engineer | Embedded Systems & IoT

Mudigere, Karnataka

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Electronics and Communication Engineering graduate with a strong foundation in embedded systems, PCB design, IoT, and signal processing. Passionate about building innovative electronic solutions and contributing to real-world engineering projects by combining hardware engineering knowledge with practical technical applications.

EDUCATION

Yenepoya Institute of Technology

Bachelor of Engineering in Electronics & Communication

Moodbidri, India

2021 – 2025

Mountain View PU College

Pre-University Course (PUC)

Chikkamagaluru, India

2020 – 2021

TECHNICAL SKILLS

- **Programming & Web:** C, Embedded C, Python, JavaScript, HTML5, CSS3, Verilog.
- **Hardware & Embedded:** STM32, NodeMCU, Arduino, Raspberry Pi, PCB Design.
- **Engineering Tools:** LT-Spice, EasyEDA, Proteus, Xilinx ISE, Keil uVision.
- **Professional Skills:** Problem Solving, Technical Thinking, Teamwork, Time Management.

PROFESSIONAL EXPERIENCE

Ai Robosoft Pvt. Ltd.

Embedded System & IoT Intern

Bengaluru, India

Oct 2023 – Nov 2023

- Developed IoT solutions utilizing Arduino and Raspberry Pi hardware to implement robust embedded systems for automation.
- Programmed system microcontrollers using Python, optimizing hardware-software integration for real-time operations.

Invihub Technosolutions Pvt. Ltd.

Embedded Electronic Circuit Intern

Bengaluru, India

Oct 2022

- Designed and tested embedded electronic circuits, programming microcontrollers to ensure seamless sensor integration and control.
- Built, evaluated, and optimized physical hardware prototypes to improve overall system reliability and performance.

Snap Digital Marketing & Media Solutions

Web Developer & Business Associate

Chikkamagalur, India

Jul 2025 – Jul 2026

- Designed, developed, and deployed 9 live production websites for commercial clients, optimizing for performance, SEO, and responsive UI/UX.
- Managed end-to-end project lifecycles, translating client requirements into functional digital platforms using HTML5, CSS3, and JavaScript.

TECHNICAL PROJECTS

AI Based Virtual Mouse (Gesture Controlled) | C, Sensors, Signal Processing

- Developed a gesture-controlled virtual mouse system utilizing sensors to interpret hand movements for cursor control without physical touch.
- Integrated real-time gesture recognition to deliver an intuitive interface; awarded 1st place in the Department of ECE and IEEE mini-project competition.

Voice Based Smart Home Automation & Security | IoT, Arduino, NodeMCU, Python

- Engineered a smart automation framework using Alexa, a four-channel relay, and NodeMCU for seamless voice-controlled home appliance management.
- Integrated IoT-based monitoring, motion sensors, and door/window alerts into a unified mobile application for enhanced security and remote access.

CERTIFICATIONS

- **Drone Dynamics: From Blueprint to Flight:** 5-Day Hands-on Workshop, Yenepoya Institute of Technology (Jul 2024).
- **Python Course for Beginners:** Completed foundational programming training.
- **Vigyan Sarvatra Pujyate:** Festival of SCoPE for All, Pilkula Regional Science Center (Feb 2022).