

# M MANOHAR NAIK

Aspiring Embedded & IoT Developer | B. E Graduate (ECE) | +91 6360980694  
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## CAREER OBJECTIVE

Embedded & IoT Developer skilled in ESP32, STM32, and real-time systems. Passionate about building reliable, connected devices through efficient firmware-hardware integration.

## ACADEMIC QUALIFICATION

- B.E in Electronics and Communication Engineering – **MVJ College Engineering**, Bangalore – **8.2 CGPA** (2021–2025)
- 12<sup>th</sup> (PCME) – **SEA Comp PU College**, Bangalore – **82%** (2021)
- 10<sup>th</sup> (SSLC) – **ST. Anne's High School**, Bangalore – **75%** (2019)

## PROJECT

- **Wireless Mini Robot Car**: Dual ESP32 with MPU6050 for precise motor control; achieved real-time coordination via serial communication.
  - **Bluetooth Floor-Cleaning Robot**: Arduino-based autonomous bot with smartphone control; improved cleaning efficiency by 30%.
  - **Long-Range Object Detection and Surveillance Quadcopter**: Developed an ESP32-CAM-based quadcopter for live surveillance and YOLOv3-based object detection.
  - **RFID-Based Parking System**: ESP32-based gate control with secure access; reduced manual intervention by 90%.
  - **Weather Monitoring System**: ESP32 with LCD and Blynk app; real-time display of temperature, humidity, and rain status.
  - **Obstacle Detection System**: IR sensor + buzzer alerts; achieved 200ms response time via Blynk dashboard.
- All project repositories and visuals available on [GitHub: <https://github.com/manohar146>], [LinkedIn: <https://www.linkedin.com/in/manohar-naik-2a081a24b/>], and [Portfolio: <https://manohar146.github.io/manoharnaik146.github.io/>].

## INTERNSHIP EXPERIENCE

**Embedded Development Intern** — Thinkfinity Labs Pvt Ltd, Bangalore (May–Sep 2025)

- Prototyped STM32-based embedded control units.
- Debugged firmware using JTAG and emulators.

## DECLARATION

I hereby declared that the above information given by me is true to best of my Knowledge.

Place: Karnataka, Bangalore

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- Validated UART/I2C communication and documented workflows for production.
- Collaborated with senior R&D engineers to integrate STM32 peripherals and test I2C/UART communications.

## TECHNICAL SKILL

- **Programming**: Embedded C, C++, Verilog HDL, Python, HTML
- **Platforms**: ESP32, STM32, Arduino, Raspberry Pi
- **Protocols**: UART, SPI, I2C, PWM, ADC, GPIO, JTAG
- **Tools & IDEs**: STM32CubeIDE, Arduino IDE, Espressif IDE, NI LabVIEW, OpenROAD
- **Debugging**: Serial Monitor, Logic Analyzer, Firmware Debugging
- **Version Control**: Git, GitHub
- **Other**: Interrupt Handling, Real-Time Operating Systems (RTOS), Firmware Testing, Microcontroller Programme.

## CERTIFICATIONS

- **VLSI Design Engineer** – NPTEL Certification ([https://drive.google.com/file/d/13xKdNMSuJQJcf\\_8d7chSqwwCn0pNz1ol/view](https://drive.google.com/file/d/13xKdNMSuJQJcf_8d7chSqwwCn0pNz1ol/view))
- **Arduino Development** – Training Completion Certificate (Internshalla) ([https://drive.google.com/file/d/1IBbkQg81A9ULc\\_YlGy2KxMp5PpG12L-W8/view](https://drive.google.com/file/d/1IBbkQg81A9ULc_YlGy2KxMp5PpG12L-W8/view))
- **IoT & Embedded Systems** – Internship Completion (Airobosoft Products and Services LLP, Oct–Nov 2023) ([https://drive.google.com/file/d/1aSeY3ioVa\\_X79u\\_WLtrbp33I5WgM-\\_1O9/view](https://drive.google.com/file/d/1aSeY3ioVa_X79u_WLtrbp33I5WgM-_1O9/view))
- **NI LabVIEW** – Training & System Design Certification (<https://drive.google.com/file/d/1IEo-yJGBEKmeKM0h80kQU3dugPKX9v1P/view>)

## LANGUAGES KNOWN

- **Hindi, Kannada, English** — Fluent
- **Tamil, Telugu** — Conversational