MANOJ M

Chennai | 7200697306 | manojmahendran555@gmail.com |
www.linkedin.com/in/manoj-m-53621829a | github.com/buildbymanoj

Career Objective

I am a final-year B.E. Electronics and Communication Engineering student with a strong interest in hardware systems, software development, design, and artificial intelligence. Passionate about continuous learning, I strive to explore diverse technological domains and contribute to building innovative and impactful solutions across embedded systems, AI, and product design

Education

- BE Electronics and Communication Engineering
  Agni College of Technology, Chennai (2022-2026)

  CGPA: 8.72 (till 5th semester)

- C D Nayagam T Nagar Hr Sec School(2019 - 2022)

- HSC - 86.87%   • SSLC - 79.6%

Key Skills

- **Programming**: C, Java, Python
- **Tools:** GitHub, VS Code,colab,Excel,Word,Powerpoint
- **AI/ML:** OpenCV
- **Robotics:** Drone Building & Piloting, ArduPilot

- **Designing:** PCB (KiCad), 3D (Fusion 360),Canva
- **Hardware:** Arduino, ESP32, MSP430, Raspberry Pi
- **Electronics**: Basics, Circuit Theory, Digital, Analog
- **Soft Skills:** Teamwork, Adaptability, Quick Learner

Projects

Rescue Drone (2024)

Built a pilot-controlled rescue drone with payload delivery capability for an international competition.

Automatic irrigation system(2024)

Developed a smart irrigation system that automates water flow using moisture sensors to conserve water

Fire Fighting Bot (2025)

Built a robot that detects and extinguishes fires autonomously for rapid response in hazardous environments.

BCI based Car Game (2025)

Developed a brain-computer interface (BCI) car racing game that uses EEG signals to control in-game actions based on user Data

Webcam-Based Real-Time Plant Stress Detection (2025)

Real-time detection of plant stress symptoms using color segmentation to identify nutrient deficiencies and infections from yellow leaf regions.

Internships

- Magic Menporul Software Solutions Private Limited Company (MAY 2024 - MAY 2024)

  (IOT Trainer Intern) Mylapore, Chennai

  I trained 40 students on the basics of IoT and robotics, while also developing my communication and leadership skills.

- Garuda Aerospace (JUNE 2025 - Present)

  (Team Leader of Agni Aviators) Thalambur, Chennai

  Developing a precision agriculture drone with image processing, autonomous navigation, and multi-drone coordination for the NIDAR

  competition.

Achievements

- Ranked 2nd in academics in my class in 2025
- Achieved 2nd place in the Drone Rescue Challenge at TechnoXian 2024, an international event held in Noida.
- Won 3rd place at Code Wars: The Rise of Automation, a 12-hour hackathon in 2025.
- Secured 2nd place in the Texas Instruments MSP430 Mentored Hackathon 2024.
- Awarded 1st place in the Project Expo 2024.

Leadership & Events

- Serving as Student Department Coordinator since 2025.
- NCC Cadet Captain in 2018, showcasing leadership and discipline.
- Coordinated the Circuit Hunt event at the college symposium in 2024 and 2025.
- Organized the Micro Mania event for second-year students.
- Participated in national-level competitions including Flipkart GRiD 6.0 and the e-Yantra Robotics Competition by IIT Bombay.

Workshops

- Grateful to have participated in the IDE Bootcamp 2025 in Kerala, where I gained valuable insights into startups and innovation, with support from mentors and institutions.

- Had the incredible opportunity to visit the Crescent Innovation and Incubation Council at Crescent College in 2025, where I gained valuable insights into startups, innovation, and entrepreneurship.

Certifications

- Skillrack Certification in C Programming