Manipradeep V

Chennai, Tamil Nadu, India — manipradeep1504@gmail.com — +91 8072771060 — linkedin.com/in/manipradeep007

OBJECTIVE

Motivated Electronics & Communication Engineering graduate with skills in Embedded Systems, C programming, and hardware design. Seeking an entry-level role to apply technical knowledge and grow in the Embedded domain.

EDUCATION

Kings Engineering College, Tamil Nadu   May 2025
Bachelor of Engineering in Electronics and Communication - First Class
CGPA - 8.1

Clarence Matriculation Hr Sec School, Tamil Nadu
SSLC (10th) - 76.2%   Apr 2019
HSC (11th) - 70%   Apr 2020
HSC (12th) - 85%   Apr 2021

SKILLS

Soft Skills: Typewriting, Focused Listening, Adaptability, Continuous Learning, Teamwork, Leadership
Technical Skills: C, Python, Embedded C, Microcontrollers (Basic), Keil, Proteus, STM32CubeIDE, Linux Basics, OS installations

PROJECTS

Secure Bootloader on STM32   STM32F446RE, STMCubeIDE
Pumo Technovation, Chennai
- Developing a secure bootloader to verify and update firmware safely
- Implementing flash memory read/write protection
- Experienc with STM32CubeIDE and embedded C

Automated Pill Dispenser   Arduino Mega, Raspberry-Pi 4, Stepper motor
Kings Engineering College
- Designed smart dispenser with web app for doctors and QR authentication for patients
- Built real-time communication, payment, and feedback modules
- Reduced wait times and improved prescription accuracy

Smart Irrigation System for Precision Farming
Kings Engineering College   Raspberry Pi 4, Soil moisture sensor

- Developed automated irrigation with real-time soil monitoring
- Integrated React Native app, cloud support, and Random Forest ML for remote pump control and notifications

Autonomous Vehicle Prototype   Arduino Uno, Stepper Motor, Sensors
Kings Engineering College
- Built autonomous delivery vehicle with lane and obstacle detection
- Integrated GPS, GSM, and smart route inference for navigation and accident alerts

TECHNICAL ACTIVITIES & CERTIFICATIONS

- First Position - Electromaker Competition, *Euphoria 2k24*, Kalasalingam University
- Presented project papers and participated in technical events across colleges
- Certified in Scilab and Arduino tests by Spoken Tutorial Project, IIT Bombay