

SUMMARY

Embedded Software Developer experienced in vehicle control unit software and Linux-based packages. Skilled in C, Python, real-time automotive systems, and embedded tools.

WORK EXPERIENCE

- **Ultraviolette Automotive**

Embedded Software Engineer

On-Site
Jun 2025 - Present

- **Technologies:** QT/QML, gammaRay, AWS
 - **Key Achievements:** Developed cluster features with VCU logic and profiling for production.
- **Raptee HV**

Embedded Software Engineer

On-Site
Jun 2024 - Present

- **Technologies:** IPC (TCP/IP, UDP, ZMQ, socketCAN, D-BUS), Bash, Linux (I2C drivers, memory tools, service management), Networking (network-manager, wpasupplicant), Bluetooth(pbap, map, obx, GAP, GATT), GDB, CMAKE, Makefiles, Pthreads, Yocto, PahoMQTT
 - **Key Achievements:**
 - * Optimized EV control software and real-time protocols.
 - * Added real-time drivers in userspace and kernel.
 - * Collaborated on EV platform architecture design.
 - * Built automation tools with Bash and Jenkins.
 - * Managed GitHub pull requests.
 - * Set up Yocto test bed on Raspberry Pi.
- **Raptee HV**

Embedded Software Intern

On-Site
Feb 2024 - Jun 2024

- **Responsibilities:**
 - * Developed software for automotive control units.
 - * Tested CAN bus communication protocols.
 - * Built initial vehicle display software.
- **Raptee Energy**

Flutter Developer Intern

On-Site
Nov 2023 - Feb 2024

- **Responsibilities:**
 - * Cross-compiled and tested Flutter apps for vehicle units.
 - * Supported Flutter app packaging.
 - * Managed containerization and orchestration.

EDUCATION

- **Vellore Institute of Technology**

B.Tech, Computer Science; CGPA: 7.64

Chennai, India
2020 - 2024

TECHNICAL SKILLS

- **Languages:** C, Python, Bash, SQL
- **Embedded:** IPC, socketCAN, D-BUS, I2C
- **Tools:** Git, CMAKE, GDB, Docker, Jenkins
- **Frameworks:** QT/QML, Flutter, Django
- **OS:** Linux

PROJECTS

- **IoT Respiratory Disease Prediction:**
 - Built IoT system with TFLITE model and sensors.
 - Processed real-time pressure sensor data.
 - Developed mobile app for results display.

CERTIFICATIONS

- **Linux Kernel Development 103** Jul 2024