**PAVAN KUMAR CHATTA**  
**Embedded Systems Engineer Trainee**   
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**PROFESSIONAL SUMMARY**

Embedded Systems Engineer with expertise in **Bluetooth technology, wireless communication, and automotive embedded systems**. Proficient in **Bluetooth Low Energy (BLE), CAN, UDS, CAPL scripting, and Vector tools**. Passionate about innovation in **automotive software development, ADAS, and embedded systems**. Experienced in **Agile, ASPICE, and V-Model methodologies**.

**EDUCATION**

**Anantha Lakshmi Institute of Technology and Sciences, Andhra Pradesh, India**  
**Bachelor of Technology (B.Tech) in Electronics and Communication Engineering**  
July 2018 - May 2022 | **CGPA: 8.04**

**WORK EXPERIENCE**

**Unidad Techno Labs Private Limited | Bengaluru, India**

**Systems Engineer Trainee** | October 2023 - March 2024

* **Automotive Communication Protocols:** Hands-on experience with **CAN, UDS, and ISO-15765**.
* **Testing & Debugging:** Conducted **fault-free system setup**, **diagnostic testing**, and **CAPL scripting** for validation.
* **Vector Tools Proficiency:** Skilled in **CANoe, CANalyzer**, and debugging automotive networks.
* **ADAS & Safety Testing:** Implemented **passive safety testing (airbags)** under ASPICE compliance.
* **Project Management:** Worked in **Agile and ASPICE models** for system development.

**Wipro Technologies | Hyderabad, India**

**Project Engineer** | April 2022 - January 2023

* Developed and executed **Android automation scripts** using **Core Java, Appium, and Eclipse IDE**, reducing manual testing time by **30%**.
* Conducted **defect tracking and software testing** to ensure quality assurance.
* Collaborated with **development teams** to integrate and debug applications effectively.

**TECHNICAL SKILLS**

* **Programming Languages:** C, C++, Embedded C, CAPL Scripting
* **Communication Protocols:** CAN, UDS, TCP/IP, OSI Model, UDP, UART, SPI, I2C, Bluetooth, BLE
* **Tools & Platforms:** KEIL IDE, CANoe, JIRA, DOORS, Lauterbach TRACE32
* **Microcontrollers**: NXP, ESP32, Quectel.

**PROJECTS**

**System Testing of Body Control Module (BCM)**

* **Overview:** Developed and tested **BCM functions** for vehicle control and ECU communication via CAN.
* **Key Responsibilities:**
  + Analyzed requirements and developed **functional test cases**.
  + Configured **fault-free system setups** and verified **diagnostic identifiers (DIDs)**.
  + Reported and tracked defects, ensuring timely fixes and retesting.
  + Assisted in **hardware setup, debugging**, and supported feature enhancements.

**Wireless Home Automation System using Bluetooth**

* **Overview:** Designed and developed a **wireless home automation system** using **HC-05 Bluetooth module and LPC2129 microcontroller**.
* **Key Responsibilities:**
  + Implemented **AT commands** for Bluetooth configuration and secure device pairing.
  + Programmed **relay modules** to control home appliances remotely via a mobile app.
  + Achieved **seamless wireless communication** using **UART protocol**.
  + Enabled **real-time status feedback (ON/OFF)** from appliances to the smartphone.

**CERTIFICATIONS**

* **Certification in Embedded Systems** – Vector India Institute, Bengaluru

**LANGUAGES & INTERESTS**

* **Languages:** English, Telugu
* **Interests:** Automotive Software Development, Embedded Systems, AI in Automotive
* **Availability:** Open to relocation

**DECLARATION**

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.