ARAVIND M
Embedded Software Developer

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Notice Period - Immediate

TOTAL EXPERIENCE DURATION: 9 YEARS 9 MONTHS

PROFESSIONAL EXPERIENCE:

- ***VISTEON TECHNICAL & SERVICE CENTRE, Chennai.** 1-Oct-2021 to 26-Oct-2023. (Working as Senior Embedded Software Engineer)

- ***KLAUS IT SOLUTIONS PVT LTD, Bangalore.**   10-March-2021 to 30-Sep2021. (*Client: Visteon Technical & Service Centre, Chennai.
  Working as Senior Software Engineer)

- **SRI HARRIS ELECTRONIC SERVICES**, **Coimbatore.** March 2014 to March 2021. (*Client: Smart chip Pvt ltd, Coimbatore, Bangalore.
  Working as Embedded Software Developer)

CURRENT WORK SUMMARY:

- My work is to Configure **DEM, DCM (ERROR HANDLING) using EB TRESOS and** Responsible for the Development and Automation Testing of **CAN and UDS Services for (PZ1A, P33A,B,C HEV, PHEV, CONV, P42R, B13B, P42Q and Various Nissan Products,**Which include understanding customer requirement, Software analysis, calibration control, I/O testing, Manual functional testing, Automation Tool based Testing, communication testing, Documentation, report generation and customer delivery.

EXPERIENCE:

- Developed embedded coding for 8/32 bit controller in **INFENION SERIES**, **STM 32 Controllers.**
- Experience in AUTOSAR platform – **DCM, DEM (ERROR HANDLING)**.
- Extensively worked in communication protocols like **CAN, UDS, I2C, SPI, UART.**
- Good programming and debugging skills in **C**, **PYTHON**, **CAPL PROGRAMMING.**
- Hands-on Experience in **CANOE, EB-TRESOS, TD4 ECLIPSE, PROVE-TECH.**
- Proficient with **IBM Rational Doors**.
- Extensive knowledge in interfacing peripherals like **EEPROM, multi-Segment Display, RTC, LCD, keypad, ADC, Motors (DC, Stepper, Servo) and PWM.**
- Worked on software platforms like **KEIL IDE, MPLAB, AVR Studio 6.2, Arduino, Proteus and LABVIEW.**
- Highly organized, able to meet deadlines and very much willing to learn new job related skills on my own. Skilled at typing & short hand.

EDUCATIONAL PROFILE:

- **BE, (ELECTRICAL AND ELECTRONICS) (2009-13 BATCH):** from Kalaignar Karunanidhi Institute of Technology, Anna university Chennai.

WORK EXPERIENCE:

Product Details- 1:

Title   : **AUTOMATED DRIVER ASSISTANCE SYSTEM (ADAS)**

                 (AUTOSAR) (Configuration of DEM and DEM)

Client   : **RENAULT NISSAN.**

Description & responsibility:

Advanced driver-assistance systems are systems developed to automate, adapt, and enhance vehicle systems for safety and better driving. The blind spot detection system uses the radar sensors to reduce the road fatalities by minimizing the human error.

Product Details- 2:

Title   : **PEDESTRIAN COLLISION AVOIDANCE SYSTEM**

Client   : **Mercedes-BenZ.**

Description & responsibility:

Product is designed with the help of the **CANoe Simulation** for pedestrian crossing which assists to display to the driver to warn them if any object is crossing the Pedestrian.

Product Details- 3:

Title   **:** 1. GSM Based Three Phase Starter (First Unit).

2. Compact model Three Phase Starter (Second Unit)

3. Multi motor Starter (Third Unit)

4. Single phase Digital meter (Fourth Unit)

Client   **: TEXRO Electronics Coimbatore**.

Description & Responsibility: Long range wireless three phase & single phase Motor control starters with **GSM, voltage & current measurement** in different modes of operation. Develop C code for **PIC18F4620** (First and Third Unit), **PIC16F886** (Second Unit) and **PIC16F676** (Fourth unit).

Product Details- 4:

Title   **:** **AGRICULTURAL BASED MOTOR STARTER**

Client   **:** **Pricol, Coimbatore.**

Description & responsibility:

Product is designed for agricultural usage which helps to protect pump motors from dry run, abnormal voltages and phase failure. Farmers are intimated about fault conditions, electricity resume and fail through **SMS** using **GSM Technology**

PERSONAL PROFILE:

Parents Name   **: Mohandass and Radha**

Date of Birth   **: 7/3/1992**

Sex   **: Male & Married**

Languages known: English, Tamil.

Aravind M

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