

# Arredla Manideep Reddy

Mail-Id : - [arredlamanideepreddy205@gmail.com](mailto:arredlamanideepreddy205@gmail.com).

Mobile :- 6300083124

LinkedIn : <http://www.linkedin.com/in/arredlamanideep>

## Professional summary

- Professional **experience of 4 years** as an Embedded Software Engineer.
- Good knowledge in Embedded C Programming Language.
- Having basic knowledge on AUTOSAR Layered Software Architecture, BSW and MCAL driver.
- Better knowledge in protocol like CAN, UART, SPI, I2C and Basic Knowledge on UDS, CCP Protocol.
- Decent knowledge and Experience in requirement coding and Implementation.
- Strong skills in embedded software development and debugger Tools.
- Hands-On with tools CANalyzer, ATP, ET and Lauterbach Trace32.
- Having Knowledge on Debugging using Trace32.
- Having decent work experience in programming with C, Embedded C, GIT version control.
- Basic knowledge on MATLAB Programming, MATLAB Scripting, Simulink, and MATLAB Models.
- Having knowledge on different generations of ECM's like A5, A6 and A7 ECM's.
- Exposure in Software development, analysis, design.
- Hands-On preparing Software-requirements, Design, Test Plan and Test reports.

## Work experience.

- **Company:** Automotive Robotics India.
- **Experience:** Apr 2021 - till date.

## Academic Profile

- Completed B.Tech , Electrical and Electronics Engineering from Sri Indu Engineering college, Hyderabad, Telangana in 2018.
- Completed Intermediate from Vasavi junior college, Miryalaguda, Nalgonda, Telangana in 2014
- Completed High School from ST. John's Concept High School in 2012

## Skill Set

**Language:** C, Embedded C, AUTOSAR Architecture MATLAB , MATLAB Simulink.

**Software tools:** MATLAB, Trace32, ATP, ET, Vector CANalyzer, Wireshark, Git, Ivy, Keil uvision IDE.

**Hardware tools:** Debugger (Lauterbach), Cancasexl, Radmoon, Vector CANalyzer, Communication adapters.

**Protocol:** CAN, CCP, HTTP, UDS.

**Operating System:** Windows, RTOS

## Project #1

**Company** : Automotive Robotics India Pvt Ltd.  
**Project** : C99 Library function changes  
**Client** : Caterpillar  
**Programming Languages** : Embedded C  
**Tools**: Trace 32, ATP, CANalyzer.

**Description:** The scope of this project is needed to replace C99 library function usage with C89 library function. Ensure the Full regression Testing.

### Roles & Responsibilities:

- Analyzing project Document and understand the functionality of library.
- Proceed for the library Changes without affecting library functionality.
- Performed regression testing by using ATP tool.
- Prepared the document for library changes and Test report.

## Project #2

**Company** : Automotive Robotics India Pvt Ltd.  
**Project** : common System Application platform specific oel\_os\_config compatible for csw package release validation.  
**Client** : Caterpillar  
**Programming Languages** : Embedded C  
**Tools** : Trace 32, ATP.

**Description:** The aim of this project is to create a common system application and give the A6MX, A6M12, A6M9, B6M5 and A6E2 system applications support in common system application, and ensure that building and validating CAN, ETH, clock, NVM and port stats support for mentioned all platforms in scl system test common application and also Ensure the Flashing & Re-flashing on j1939 & IP data links for all mentioned platforms.

### Roles & Responsibilities:

- Analysis of requirement and Refer the Document like Test plan related to project.
- Porting each platform application in common system applications.'
- Manually checked the flash and re-flashing through IP and J1939 data link for each platform.
- Ran basic CAN, ETH, NVM, Clock (tx/rx) test cases for each platform and ensure that all are expected result.
- Validate port monitoring Status and Port statistics in ET for each platform.

### Project #3

**Company** : Automotive Robotics India Pvt Ltd.  
**Project** : CAN Implementation on STM32F407  
**Programming Languages** : Embedded C  
**Tools** : Keil 5 Uvision , ST- link Debugger, CAN Transceiver and CAN Receiver

**Description:** The objective of this project was to develop a CAN driver to transmit and receive the data on STM32F407 Discovery Board.

#### **Roles & Responsibilities:**

- Analysis the STM32F407 reference manual.
- Understand the CAN driver related feature and peripherals.
- Developed the CAN application to validate the CAN Driver.

**Declaration:** I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned.

**Place:**

**Date:**

**Manideep Reddy Arredla**