Kanithi Lakshmi Amrutha

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Objective

Seeking a challenging position to apply my expertise in problem-solving, coding, and collaborative teamwork. Eager to contribute to innovative projects, enhance my skill set, and contribute to the success of a dynamic development team.



Education

2013-2017



Aditya engineering college Surampalem Andhra Pradesh

Bachelor of technology (computer science and engineering)



Present Experience

:FIRSTZEN SOLUTION'S PRIVATE LIMITED



Company

Project :COMM Stack developement for Gateway and BMS ECU'S Position :Software Engineer

2020-Present



Project Description

The primary goal of this project is to develop a robust and efﬁcient communication stack for facilitating seamless data exchange between the Gateway Electronic Control Unit (ECU) and the Battery Management System (BMS) ECU within a vehicle's electronic architecture. This communication stack will enable critical functionalities such as real-time monitoring, control, and diagnostics of the battery system while ensuring compatibility with existing vehicle communication protocols.



Roles And Responsibilities

Requirements segregation and analysis with respect to change request.

Conﬁguration of Communication stack module followed by communication network protocol CAN and their modules.

Implementation and conﬁguration of DCM module for the diagnostic stack followed by UDS-CAN.

Hands on experience on conﬁguring service ID RDBI(22) and WDBI(2E) and implementing DID'S.

Manual testing and debugging of CAN signals and DID'S. Flashing and validation of signals in CANOE

After successful implementation and conﬁgurations without any errors documentation of the generated signals have been done.

The extracted arxml ﬁle and documented report should be delivered to the integration team.



Environmental Setup

Davinci Conﬁgurator classic, GCC- Compiler, Visual studio - IDE, CANoe Testing



Protocals

Hands on experience CAN, UDS & CANTP communication network protocol's.



Previous Experience

Company :PMKK DATAPRO 2018-2020

Position : IT trainer



Description :Worked as an IT trainer in Pradhan manthri Kaushal Kendra(Datapro).As an IT trainer I I have involved in developing and delivering comprehensive training programs to enhance participants skills in speciﬁc IT areas. My goal is to empower individuals with practical knowledge in real-world scenarios. Regular evaluation and feedback.



Technical Skills

Embedded C Development, Classic AUTOSAR-BSW later, CAN(ISO11898), UDS(ISO14229), Can Tp,Implementation, Validation of inconsistencies.



Tools And Technologies

Architecture: Classic AUTOSAR Communication protocols: CAN CANTP UDS Programming languages : C

Software tools: Davinci Conﬁgurator, Davinci Developer, VS code Testing tools: CANoe16

32Bit Micro Controller : Renesas RH850



Languages

English, Telugu, Hindi



Declaration

I here by declare that the information above is true to the best of my knowledge and belief

Amrutha.K