

J. MEGHANATH

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Objective:

To obtain a position of responsibility that utilizes my skills and keen to work in an environment where I can enrich my knowledge and ability to work in a team.

Work Experience:

Experience Summary	<ol style="list-style-type: none">1. Have experience on HIL (Hardware-in-loop) testing and validation using dSPACE Simulators.2. Have good experience and knowledge on CAN, J1939 protocols.3. Have good experience in Dspace control desk4. Hands on working experience on Vector Applications like CANape and CANalyzer.5. Validating software for Engine control systems with other on-board ECMs like Operator control panel, Exhaust Temperature Module etc6. Requirement analysis of the engine features/strategies, developed engine features, unit test plan validation.7. Software Integration for the application file.8. Developed Python Scripts for the migration activities of the version control tool from Clearcase to Git.9. Good communication skills and a cohesive team worker, having strong analytical, problem solving and interpersonal skills.
Experience	<p>ZF India Pvt Ltd, Hyderabad</p> <p>Date of joining: 29/11/2021</p> <p>Role: Senior Engineer</p> <p>L&T Technology Services, Chennai</p> <p>Date of joining: 13/06/2018</p> <p>Role: Engineer</p>

Skill Set:

- Programming Languages: C, Python, Basics of CAPL
- Software: Understand C
- Protocols: CAN, J1939
- Tools: Canape, Canalyzer, Simulink, Trace32, Jenkins
- Version control system: GIT, Clearcase

Academic Qualifications:

Qualification	Board/University	Year	Percentage/CGPA
B.Tech (Electronics & Communication Engineering)	SRM Institute of Science and Technology, Chennai	2014-2018	9.639/10
Higher Secondary Education	Board of Intermediate Education, Andhra Pradesh	2014	96
SSC	Board of Secondary Education, Andhra Pradesh	2012	9.7/10

Professional Experience:

ZF India Pvt. Ltd.

Role: Senior Engineer

Period: 29th November,2021 to till date

1. Migration of source code to Azure repositories from Clearcase VOBs

Project Description:

Migrate the source code into Azure repositories and modify the existing build scripts and make files for the new build environment.

- Automate the migration tasks using python scripts.
- Build automation using CMake Scripts.
- Establish compilation and linking for the source code to generate executable files.

L&T Technology Services

Role: Engineer

Client: Caterpillar India Private Limited

Period: 13th June, 2018 to 23rd November,2021

1. Validation of Engine Control System in HIL Environment

Project Description:

Setup of HIL Bench with dSPACE Simulators and integrated controllers(ECM).Validating the Engine controls for new requirements and Regression testing on different programs of Gas Engines using dSPACE MREt and with interface of Control desk.

- Setting up HIL bench with required ECMs in loop.
- Black box testing of the Engine controls with the system level test plan.
- Field issue analysis on the bench.
- Diagnostic and event analysis.
- Simulating messages from Canalyser and CAT internal tools.

2. Development of new requirements and Integration for Gas Engine systems

Project Description:

The project involves the requirement analysis of the engine features/strategies. Design of the final approved requirements. Implementation of the Design with code changes, writing unit test plan and its execution followed by Integration for release.

- Implement the design using C language
- Usage of Clearcase and Git for version control
- Debugging of the software using Trace32

3. Git Migration – Git as version control tool from Clearcase

Project Description:

The project involves mirroring the contents from clearcase VOBs and modifying the files involved in software integration to build the application file with binary match.

- Developed python scripts and leveraged the modules available to automate migration tasks.
- Modify the make files to achieve binary match of executables in the new build environment.
- Streamlined the process in the new build system with respect to the behavior of version control tool.
- Performed of basic system testing on the generated executables.

Recognition and accomplishments:

- Recognized by **Caterpillar India Private Limited** for contribution towards the project of Engine ECM Replacement.
- Qualified in GATE(ECE) 2019,2020 & 2021.

Personal Details:

Date of Birth	: 19 th July, 1996
Languages known	: English, Hindi, Telugu
Gender	: Male
Nationality	: Indian

Declaration:

I hereby conclude that all the information given above are true to best of my knowledge.