MOHAMMED ARSHAN

Bunder Road 5th Cross, Bhatkal, India Phone: +91-9008338176
Email: arshan.shaikh94@gmail.com LinkedIn: **linkedin.com/in/mohammed-arshan-263ba9113**

Results-driven professional with 7.9 years of experience in automotive simulation and software development. Expertise in leading projects, designing simulators, process automation, and improving workflow efficiency. Proficient in Software-In-the-Loop (SIL) simulations, Electronic Brake Systems and debugging. Proven track record in team leadership, project management, and delivering high-quality results in agile environments, ensuring precise customer requirements are met.

EXPERIENCE

January 2024 – PRESENT

TECHNICAL LEAD, CONTINENTAL AUTOMOTIVE COMPANY INDIA PVT LTD

Domain: **Active Safety, Brake Systems, ABS/ESC.**

- Led the successful migration of the CarMaker 13 project, coordinating with multiple stakeholders to ensure smooth project execution.
- Designed and developed a simulator for Electronic Brake Systems, enhancing simulation accuracy and system performance.
- Automated Jazz task handling, reducing manual development efforts by 2 hours per task, significantly improving workflow efficiency.
- Developed a Brake Parameter Delivery Tool that reduced delivery time from 1 hour to just 10 minutes, optimizing project timelines.
- Actively contributed to the Base Development Team, working on bug fixes and implementing new features for Software-In-the-Loop (SIL) simulations.
- Led a project focused on defect reporting and creating work items for failing tests in automated builds, streamlining issue resolution and improving test coverage.

JANUARY 2020 – JANUARY 2024

TECHNICAL SPECIALIST, CONTINENTAL AUTOMOTIVE COMPANY INDIA PVT LTD

Domain: **Active Safety, Brake Systems, ABS/ESC.**

- SIL Environment developer for European, Asian and American OEM's.
  Responsible for creating SIL Environment, testing and debugging for ESC, ADAS and Parking Functions of Brake systems.
  Handling responsibility to create rest bus, generate software executables and finally integrate with Simulink environments.
- Developing python scripts to execute SIL environment in Local Jenkins Setup

- Developing Simulink Adaptors for hybrid and Electric powertrains.
- Took the initiative in designing virtual SIL environment for **Motorcycles**, handling requirements, creating simulation models, generating executables from the software Code and was responsible for function testing and Failsafe Testing.
- Took ownership to deliver **ABS model to Motorcycle OEM**. Worked on pressure sensor simulation, delivering Simulation models as per customer requirement. Additionally, took part in customer meetings to resolve conflict of interests.

JULY 2018 – JANUARY 2020
Associate Engineer, CONTINENTAL AUTOMOTIVE COMPANY INDIA PVT LTD
Domain: **Active Safety, Brake Systems, ABS/ESC.**

- Created and maintained SIL environments using MATLAB and CarMaker tools to support virtual testing of various automotive systems.
- Debugged and analyzed control functions for key automotive systems, including ESC, ADAS, and Parking Assist, ensuring system reliability and functionality.

JULY 2017 – JULY 2018
Graduate Engineer Trainee, CONTINENTAL AUTOMOTIVE COMPANY INDIA PVT LTD
Domain: **Active Safety, Brake Systems, ABS/ESC.**

- Conducted system and function tests for Hill Start/Hill Hold functionality, ensuring proper performance in virtual test environments.
- Created test specifications, conducted tests in virtual environments, and generated reports to support validation and verification processes.

EDUCATION

MARCH 2023
MASTER OF TECHNOLOGY, BIRLA INSTITUTE OF TECHNOLOGY, PILANI
- Graduated in Automotive Electronics degree as a Work Integrated Learning Program with major focus on Electric and Hybrid Vehicles. Achieved 7.94 CGPA grades

MAY 2017
BACHELOR OF ENGINEERING, B.V BHOOMARADDI COLLEGE OF ENGINEERING & TECHNOLOGY, HUBBALLI

- Graduated With a degree in Electrical and Electronics Engineering with CGPA of 8.34

TECHNICAL SKILLS

- Automotive Systems & Simulations (ABS, ESC, ADAS, Brake Systems)
- Software-in-the-Loop (SIL) Simulations
- Process Automation & Workflow Optimization
- Project Leadership & Stakeholder Coordination
- Agile Methodologies & Cross-functional Teamwork
- System Debugging & Issue Resolution
- Tool & Script Development
- Brake System Modeling & Virtual Environment Testing
- Continuous Integration & Jenkins
- Brake System Simulator development
- Hydraulic Brake Parametrization and model integration.
- Scene creation, powertrain configuration in Carmaker.

TOOLS

- **Simulation Tools: CarMaker, MotorcycleMaker and MATLAB/Simulink**
- **Embedded Software Development Tools**: Eclipse, Visual studio Express 2019, Texas Instruments Code Composer Studio.
- **Programming Languages**: Embedded C, basic C++, python, mscripts, Tcl/tk scripts.
- **Automation Tool**: Jenkins
- **Version Control:** GIT, GitHub, Datalyser, ER Tool
- **Configuration Management Tools:** IBM-Jazz, MKS/IMS/PTC
- **Knowledge Management Tools**: Confluence, Xmind, asciidoctor
- **Debugging Tools:** Visual C, Gnu-gdb.

CERTIFICATES

- Awarded with ISTQB Foundation Level certificate in software testing. [ITB-CTFL 0098874]

SOFT SKILLS

- Patience and perseverance during difficult task.
- Quick learner and adaptability to change for good.
- Good Team Player.
- Good Analytical and problem-solving skills.
- Self-motivated and taking ownership in driving project.

Personal Details:

Nationality: Indian

Languages: English, Kannada, Hindi [Fluent Proficiency]