

# MOHAMMAD JAFAR PASHA

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## PROFESSIONAL SUMMARY

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I am a software engineer with 1.5+ years of experience in the automotive domain, specializing in embedded testing and development. My key skills include embedded testing, ensuring software code quality, and developing software components. I have experience in both unit testing and integration testing of software components. Additionally, I am proficient in generating detailed test reports and overview summaries. I also possess strong debugging skills to identify and resolve software issues efficiently.

I am eager to continue working on automotive control systems, leveraging my embedded testing expertise and development skills to further develop my capabilities and contribute to advancements in embedded systems.

## WORK EXPERIENCE

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### Associate Engineer | i5 Systems Private Limited, Hyderabad, India

July 2023 - Present

- Developed and tested embedded software for advanced automotive applications, ensuring high performance and reliability.
- Designed and executed unit tests using the TESSY tool, significantly enhancing software reliability through improved test coverage and defect identification
- Collaborated with cross-functional teams, ensuring timely delivery of high-quality software releases.
- Created detailed software documentation and test cases using Polarion, supporting efficient development and thorough testing.
- Conducted software qualification tests on the production setup, achieving a high pass rate for system validation.
- Participated in validation activities, including traceability updates, coverage metrics, and defect resolution.

## PROJECTS

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### Project - 1: GM\_BT1- XX

**Description:** Center console fridge used in GM vehicles. This fridge is controlled via Bluetooth/LIN/Manual pushbuttons for cooler operations and door open requests.

#### Responsibilities:

- Involved in both the development and testing of the embedded software for the fridge control system.
- Analyzed software requirements to ensure accurate understanding of project needs and implemented the code based on the requirements.
- Automated unit testing using the TESSY tool to ensure comprehensive test coverage and efficiency.
- Generated overview reports and detailed test reports.
- Debugged on target setup using the PICKIT4 debugger.
- Prepared software test cases along with relevant test data.
- Executed software qualification tests on the target setup.
- Created software testing reports in Polarion.
- Participated in validation activities, including traceability updates and coverage metrics.
- Executed system qualification tests on the production setup.
- Performed root cause analysis to identify and resolve underlying issues.

### Project – 2 : Fantastic Vent

**Description:** Fantastic Vent, a fan used in RV vehicles controlled via a remote and manual switches to maintain ventilation.

#### Responsibilities:

- Involved in the unit testing for the entire project
  - Creation of Unit test cases for each component.

- Created stub functions.
- Executed test cases and generated detailed test reports.
- Conducted static code analysis to ensure high code quality.
- Created comprehensive software testing reports.

## TECHNICAL SKILLS

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- **Languages** : C, Embedded C, C++, Data Structures, Python (basic)
- **Microcontrollers** : PIC18 Microcontroller, STM32U575
- **IDEs** : Eclipse, VS Code, Code Blocks, MPLAB, STM Cube, Dev C++
- **Communication Standards** : LIN, I2C, SPI, UART
- **Unit Testing Tools** : TESSY Tool
- **Version Control** : Git

## EDUCATION

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|---|-------------------------|
| • <b>Muffakham Jah College of Engineering and Technology, Hyderabad</b> | <b>CGPA:7.7</b>         |
| Bachelor of Engineering in Information Technology                       | 2019 - 2023             |
| • <b>Sri Gayatri Junior College, Hyderabad</b>                          | <b>Percentage: 90.6</b> |
| Intermediate (Maths, Physics & Chemistry)                               | 2017 - 2019             |
| • <b>St.Ann's High School, Armoor</b>                                   | <b>CGPA: 8.8</b>        |
| Class Xth (SSC)   | 2016 – 2017             |

## CERTIFICATES

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|--------------------------------------|-----------------------------|
| • Hacker Rank Profile                | <a href="#">Certificate</a> |
| • Hacker Rank Problem solving in C++ | <a href="#">Certificate</a> |
| • Hacker Rank Programming in Java    | <a href="#">Certificate</a> |