

# SHANMUGAPRIYAN M

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Software Engineer

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## SUMMARY

Dedicated Software Engineer proficient in developing and maintaining robust unit tests for C++ applications using gmock and CppUnit frameworks. Skilled in ensuring comprehensive test coverage, addressing defects, and maintaining software functionality. Experienced in Git, Jenkins CI/CD, and Jira for efficient version control, automation, and reporting.

Collaborative team player focused on meeting project deadlines. Excels in C programming for application layer development within embedded devices. Additionally, adept in Flutter for ongoing mobile app development, showcasing strong problem-solving skills in testing and debugging processes.

## SKILLS

- Unit testing, C++ programming
- C programming
- CppUnit, gmock and CMake
- Operating System: Linux
- Git, GitLab
- JIRA (Status tracking framework)
- Jenkins
- SPI, I2C, UART

## CERTIFICATIONS

- Microcontroller Embedded C Programming: Absolute Beginners in Udemy.
- I have completed Java course (Dec 2021 to May 2022) at Pentageon Space Institute in Bangalore.
- I have completed C Programming course (Dec 2020 to Feb 2021) at Mothertong Institute in online.

## EDUCATION

### Sona College of Technology

Bachelor's Degree in Mechanical Engineering  
June 2017 – August 2020 7.8 CGPA

### Thiagarajar Polytechnic of College

Diploma in Mechanical Engineering  
June 2014 – April 2017 80 percentage

## PROFESSIONAL EXPERIENCE

### Unit Test Developer

Acasia Technologies Company | June 2022 - July 2023

Develops unit tests in C++ using gmock or CppUnit frameworks. Ensures thorough test coverage, including edge cases and critical functionality.

Maintains and updates unit tests in sync with codebase changes. Utilizes Git for version control of test code.

Supports continuous integration by integrating unit tests into Jenkins pipelines.

Executes tests to validate code behavior and identify issues.

Logs and reports test findings in Jira.

Collaborates with developers to address test failures.

Automates testing with Jenkins CI/CD.

Integrates test results into Polarion for traceable reporting.

Configures CMake for unit testing support.

Coordinates unit tests in Jenkins for code changes or intervals.

Tracks project status in Jira, provides updates in meetings.

### Software Developer

Experion Technologies Company | August 2023 - Present

Adaptable and detail-oriented Software Engineer with hands-on experience in C programming for application layer development within embedded devices.

Proficient in Flutter, contributing to the successful design and implementation of a mobile application for the EnLighter street light controller.

Played a key role in streamlining device configuration and real-time monitoring processes, developing robust communication protocols for seamless interaction between the mobile app and embedded devices.

Actively prioritized project deadlines and demonstrated adept problem-solving skills through rigorous testing and debugging processes to maintain application integrity.