BINI VINOD

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DOHA, QATAR

+974 7750 4202

binicnr@gmail.com

VISA STATUS

Valid Qatar Resident Visa
Valid NOC
Passport: N2341590

AREAS OF EXPERTISE

- **Software Engineering**
- **Programming Languages**
- **Test Automation**
- **Quality Assurance (QA)**
- **Software Testing**
- **Test Cases**
- **Test Plans**
- **Test Scripts**
- **Regression Testing**
- **Functional Testing**
- **Unit Testing**
- **Integration Testing**
- **User Acceptance Testing (UAT)**
- **Test Management Tools**
- **Agile Methodologies**
- **Version Control Systems**
- **Bug Tracking Systems**
- **Requirements Analysis**
- **Software Architecture**
- **System Integration**
- **Performance Testing**
- **Load Testing**
- **Security Testing**
- **Code Review**
- **Software Documentation**
- **Agile Tools**

SOFTWARE ENGINEER

Total Experience: 4+ Years

https://www.linkedin.com/in/bini-vinod-89a178197/

💡 PROFILE SUMMARY

Highly skilled **Software Engineer specializing in Software Product Testing** with experience in **ensuring the quality and reliability of software products.** Proficient in **designing and executing comprehensive test plans, test cases, and test scripts to identify defects and optimize product performance**.

Expertise in **various testing methodologies, including manual testing, automated testing, regression testing, and user acceptance testing (UAT)**. Adept at collaborating with cross-functional teams to drive quality improvements throughout the software development lifecycle (SDLC). Proven track record of **delivering high-quality software solutions on time and within budget constraints**.

💼 WORK EXPERIENCE

SENIOR SOFTWARE ENGINEER   Jan 2022
QUEST GLOBAL ENGINEERING PVT LTD   - Mar 2024
Trivandrum, India

Software product testing: AVR, 3rd party controllers and Mobile Apps for Masimo consumer.

- For every Software update of Products, test the New functionalities, Basic functions and report bugs if any.
- Functional Testing, Sanity Testing, Regression testing and Exploratory of the Products.
- AVR: Denon and Marantz
- Controllers: Control4, Crestron
- Mobile Apps : Heos App, Remote Apps, Audyssey App
- Audio Testing: Dirac And Audyssey
- Mindmap Preparation : Freemind
- Testcase preparation and Testing Tool: Testlink
- Bug reporting Tool : Jira
- Tools : SVN, Confluence, Redmine

MHPS-ATE(Automatic Test Equipment)64

- Create test case and validate the requirement of an Automatic Test Equipment, which developed in cooperation with Quest, MPS and other MPS partner.
- Design done by Quest and MPS partner and Proto manufacturing by partner in Japan.
- The ATE shall support concurrent testing 64 EUTs, which are distributed among eight separate thermostatic chambers.
- Creating Test Plan, Test case, Testing and Validation
- Experience in Smoke testing, System testing, Regression testing and Ad hoc testing.
- Knowledge in Database checking using SQL queries and execution of basic commands for Linux.
- Bug reporting Tool : Redmine
- Database Management : PostgreSQL
- Configuration Management Tools: SVN

System Integration and System Validation

- Integrate the Multi Device Frame Work Application on Renesas V4H boards and integrate the reference application.
- Reference applications such as Driver Monitoring System (DMS), Front Camera, Surround View applications developed in cooperation with Quest

- Programming language : Embedded C, Linux
- Renesas V4H, V3H board bring up and boot up.
- Flashing board with application binary and Manual Testing.
- Automated Testing and validation using Shell Script.
- Also created test cases for DMS, Front Camera and Surround View applications. Testing these applications and bug reporting and integrating these applications over MDFW.

EDUCATION

MSc. Electronics, Other
University of Kerala

Kerala, India

Post Graduate
2018

Bsc.Electronics, Other
University of Kerala

Kerala, India

Graduated
2016

AWARDS & HONORS

- **Ranked 5th in University of Kerala (MSc. Electronics)**
- **Secured several scholarships at school level.**

SOFT SKILLS

- **Good Communicator**
- **Time Management**
- **Planning & Organizing**
- **Pleasing Customer Service**
- **Critical & Creative Thinking**
- **Adaptability & Multi Tasking**
- **Attention to Detail**
- **Decision Making**
- **Professional Ethics**

LANGUAGES

English

Hindi

Malayalam

PERSONAL INFORMATION

Birthday
05/04/1994
Gender
Female
Marital Status
Married
Nationality
Indian

AUTOMATION TEST ENGINEER
KIMBALL ELECTRONICS PVT LTD
Trivandrum, India

Apr 2020 - Dec 2021

- Design, Development and Testing of ECU Software for Nidec EV.
- Analysis of code and Independent Unit Testing
- Executing the Test cases for the software code (functions) using an MPU simulator
- WinAMS: the unit test simulator used for the project.
- Preparation of stub files which are needed for unit testing.
- Regression testing and Unit Testing of the system.
- Coverage Master (Similar to ICE debuggers) based debugging of the compiled code to solve the non- matching coverage results.

SOFTWARE EMBEDDED TRAINEE
QUEST INNOVATIVE SOLUTIONS
Kochi, India

Sep 2019 - Mar 2020

- Academic Level projects using Microcontroller and Embedded c in MAPLAB and KEIL IDE
- IOT based environment monitoring robotic system using ARM:
- Autonomous robotic system to monitor temperature, humidity, and harmful gas concentration in environment. Sensor used: DHT22(Temperature and Humidity), MQ3(Gas)
- GSM module is used to inform temperature level if it exceeds certain range to a mobile and to do some actions in the system as per the SMS received by ARM via GSM from a mobile. The sensing data is always stored in IoT platform using a ESP8266 Wi-Fi module connected with ARM.

TECHNICAL SKILLS

- **Programming Languages: Basics of C, Embedded C**
- **Working knowledge : Embedded Linux and Visual studio platform**
- **Application Software: MS Office (Word, Excel, PowerPoint)**
- **Knowledge in Database checking using SQl queries.**
- **Coding Standards: MISRA C.**
- **Configuration Management Tools: SVN, Git**
- **Requirement Management Tool: Mantis, Redmine, Jira**
- **Debugging tool: Case player (WinAms).**
- **Automation Testing tools: WinAMS (Coverage Master).**

ACADEMIC PROJECTS COMPLETED

1) Intelligent Wheelchair

- Implementation of eye movement-controlled wheelchair system.
- MATLAB use as software for Eye detection and its movement detection

2) Antenna position using IR Sensor

- Dish positioning system which operated using a conventional TV remote.
- Sensor used: TSOP1738(IR sensor)

3) Robotic Arm Controlled by Human Hand Motion

- To build a robotic arm which imitate the movements of human hand.
- Sensor used: Flex Sensor