**Karunesh P**  
📍Mysuru, India | 📞9113297055 | ✉️ karuneshp94@gmail.com**SUMMARY OF QUALIFICATIONS**

Software Engineer with 3+ years of experience in Agile testing for **automotive** and **embedded systems**, plus 6 months in **V&V** of safety-critical avionics software. Experienced with MATLAB, Simulink, and various modeling tools. Skilled in requirement analysis, test strategy, debugging, and ensuring high software quality through rigorous QA practices. Proficient in DO-178B standards (Levels A/B/C) for avionics V&V. Also experienced in Selenium automation using Python and JavaScript, and in developing user interfaces and websites using HTML, CSS, and JavaScript

**TECHNICAL PROFICIENCIES**

**Languages:** C++, Embedded C, Python, HTML, CSS, JavaScript  
**Testing & QA:** Selenium (Python & JavaScript), Functional Testing, Diagnostics, HIL, Integration, Regression, Automation, Agile/Scrum, STLC, V-Model **Tools & Platforms:** MATLAB, Simulink, Jira, IBM Rhapsody, IBM RTRT, Trace32 Debugger, Enterprise Architect  
**Other Skills:** Test Planning, Execution, Root Cause Analysis, CI/CD Testing, Test Bench Dev, Documentation **Certifications:** AUTOSAR Architecture | MATLAB & Simulink**WORK EXPERIENCE**

**Software Engineer**  
*Expleo, Bengaluru* | April 2024 - Present

* **Leading** a team in **offline testing** and automation for MATLAB & Simulink models, achieving 100% test coverage and reducing debugging time by 20%.
* Delivered ASIL D level safety compliance by developing detailed test plans, execution reports, and defect tracking strategies using Jira and RTRT tools.
* Executed V&V for DO-178B Level A/B/C avionics systems, including unit, integration, and system-level testing.
* Automated **bug tracking** and reporting processes, resulting in a 15% faster resolution cycle compared to manual handling.
* Developed Selenium-based automated test scripts using Python and JavaScript for UI and workflow validation.

**Associate Software Engineer**  
*Expleo, Bengaluru* | November 2022 - April 2024

* Conducted requirement analysis and created detailed manual and automated test cases, contributing to 95% pass rate in client acceptance testing.
* Designed and executed unit test frameworks using **Trace32 Debugger** and Python scripts, reducing **regression tes**t time by 30%.
* Assisted in architectural development and modeling using **IBM Rhapsody** and **Enterprise Architect** for embedded system projects.
* Achieved ISTQB certification during tenure, applying best practices to **Agile-based testing workflows**.

**TECHNICAL PROJECTS**

**Website on Mysuru**  
*Personal Project* | January 2024 - Present

* Developed a responsive website using HTML, CSS, and JavaScript to showcase Mysuru tourism.

**Portfolio Website**  
*Personal Project* | January 2024 - Present

* Designed and deployed a personal portfolio website to showcase skills, projects, and achievements.

**Personal Virtual Assistant using NodeMCU**  
*Amphisoft Technologies Internship* | March 2022 - April 2022

* Designed a Wi-Fi-enabled personal virtual assistant using NodeMCU, integrating voice commands and real-world device control.**EDUCATION**
* **Bachelor of Engineering**  
  Maharaja Institute of Technology, Mysore  
  *Electronics and Communication Engineering* | June 2018 - May 2022

**ACHIEVEMENTS**

* **Bold Minds Award (Expleo)** | Nov 2023— Recognized for excellence in innovation and collaboration.
* **Applause Award (Expleo)** | April 2024— Honored for outstanding project contribution and leadership.
* **Rising Star Award (Expleo) |** April 2025— Top performer award under 2024 Rewards and Recognition Program.