

Maila DePeralta

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SUMMARY:

Senior Manufacturing & Robotics Test Engineer with over 5+ years of experience in automated and manual testing across enterprise applications, mainframe systems, and cloud-based platforms. Experience includes executing test strategies using **Java, Selenium, RestAssured**, and **CI/CD pipelines**, consistently accelerating test cycles and improving software quality in **Agile environments**.

EDUCATION &

CERTIFICATIONS:

Bachelor of Science, Information Technology, CSUN, Los Angeles, CA.
Certified AWS Solutions Architect, Amazon Web Services

CORE PROFICIENCY

& COMPETENCIES:

Robotics Autonomous | Manufacturing Testing | Command & Control | rac2 | Test Engineering | Testing | Java | Python | C# | C++ | (POMS) Product Order Management Systems | (MES) Manufacturing Execution System | (ERP) Enterprise Resource Planning | Perl | Bash | JavaScript | HTML | CSS | XML | PHP | Terraform | Kubernetes | Ansible | Chef | Puppet | AWS CloudFormation | MySQL | Oracle | SQL Server | PostgreSQL | MongoDB | Amazon DynamoDB | Elasticsearch | IBM DB2 | GIT | Azure DevOps Server | Selenium | Junit | Playwright | RestAssured | Maven | Gradle | Spring | Microservices | React | Angular | Amazon Web Services (AWS) | Azure Cloud | TSO/ISPF | JCL | Batch | z/OS | (AI) Artificial Intelligence | (ML) Machine Learning

PROFESSIONAL EXPERIENCE:

United States Army via Kutta Technologies, Phoenix, AZ.

08/24 – Present

Sr. Test Engineer (Robotics Autonomous Command and Control Uncrewed Aircraft Systems)

- Engineered automated C++ functional test suites to validate end-to-end data flow, ensuring data integrity and seamless transmission across core system modules.
- Collaborated with cross-functional systems and software engineering teams to align test coverage with complex technical requirements and business logic.
- Developed and scaled comprehensive test cases for new feature releases, integrating them into the CI/CD pipeline to maintain high deployment velocity.
- Executed rigorous test plans and performed root-cause analysis on defects, ensuring backward compatibility and stability for legacy and new software features.
- Managed centralized Git repositories for C++ automation, utilizing branching strategies to streamline the integration of data validation into the primary codebase.
- Orchestrated software development using Agile/Scrum methodologies, facilitating iterative improvements and rapid response to changing requirements.

- Provisioned and maintained a fleet of Linux Virtual Machines (VMs) to simulate production environments for update validation and proactive bug isolation.

General Motors, Chandler, AZ.

06/22 – 10/23

Test Engineer (Product Order Management System Global Purchasing and Supply Chain)

- Spearheaded the automation team as Team Lead, piloting the development of Java-based test suites and integrating them with IBM Distribution Manager for Galasa to optimize testing workflows.
- Engineered a high-impact automation framework for Mainframe applications, supporting the Global Purchasing and Supply Chain Order Fulfillment sectors at General Motors.
- Achieved an 85% reduction in test execution time by developing reusable Java automated suites, significantly accelerating release cycles compared to manual processes.
- Architected automation frameworks leveraging Selenium, Rest Assured, and Page Object Model (POM) to provide rapid feedback cycles and improved build stability.
- Mentored a team of SDETs on automation best practices, documenting rigorous test procedures and fostering a culture of knowledge sharing across QA and development teams.
- Partnered with software engineers and product owners to define comprehensive test strategies, ensuring 100% alignment with requirements for global services and products.
- Executed end-to-end testing cycles—including unit, functional, regression, and integration testing—within an Agile/Scrum environment to ensure high-quality software delivery.
- Validated complex data structures and web elements using SQL, XPath, JSON, XML, and DOM manipulation to ensure robust API and UI verification.
- Enhanced time-to-market by implementing automated frameworks that increased test coverage and accuracy while providing early-stage build stability analysis.

Freelance, Phoenix, AZ.

01/19 – 06/22

Software Engineer

- Engineered custom technical indicators and automated trading strategies using ThinkScript and Pine Script, delivering user-friendly, high-performance solutions for institutional and retail investors.
- Architected bespoke watchlist columns and visual studies that streamlined data analysis, significantly reducing decision-making time for active traders.
- Managed end-to-end project lifecycles, maintaining consistent client communication to define scope, gather feedback, and deliver tailored financial software solutions.
- Performed rigorous debugging and quality assurance on all scripts to ensure maximum reliability and execution accuracy in live-market environments.
- Translated complex investor requirements into functional code, providing iterative updates and adjustments to align deliverables with evolving trading strategies.