

JEZU MARIO PALACKAL STANLEY

Oakville, Ontario, Canada

jezu.mario.007@gmail.com | 437-679-8774

LinkedIn: <https://www.linkedin.com/in/jezu-mario-palackal-stanley-192a971a0/>

PROFESSIONAL SUMMARY

Results driven engineer with 3+ years of experience specializing in PCBA level failure analysis, system integration, and hardware/software debug for advanced computing platforms. Proven expertise in root cause analysis, lab operations, Python automation, and cross functional collaboration to drive product quality and customer satisfaction. Experienced in testing broadcast systems, network equipment, and high-performance electronics with a strong background in electrical engineering and embedded systems.

PROFESSIONAL EXPERIENCE

Production Engineer | Evertz | Burlington, ON | April 2026 – present

- Validate hardware, firmware and software releases from the development teams
- Interface with development and test teams to understand testing requirements
- Create, modify and execute both manual and automated test plans
- Track deficiencies using JIRA
- Work alongside the development teams to resolve hardware and software deficiencies
- Create and update test procedures and conformance forms
- Train Manufacturing and Test staff for new product releases

Failure Analysis | Evertz | Burlington, ON | September 2023 - April 2026

- Perform comprehensive PCBA level failure analysis and system level diagnostics on advanced broadcast and networking hardware platforms.
- Lead root cause investigations and collaborate with design, validation, firmware, and manufacturing teams to implement corrective actions.
- Troubleshoot and repair complex PCBs down to component level using oscilloscopes, logic analyzers, and specialized test equipment.
- Utilize EDA tools (PADs, ViseCAD) to analyze schematics, validate and modify designs, and support debug workflows.
- Conduct incoming visual inspections and document detailed failure analysis reports for internal and customer consumption.
- Use Tera Term, PuTTY, WinSCP, and command line tools for firmware updates, BIOS configuration, and system management.
- Train and mentor team members on test procedures, repair techniques, and automation tools.

Peer Tutor | Fanshawe College | London, ON | May 2023 - August 2023

- Provided instruction in Java and Python programming, software testing methodologies, and QA practices.
- Demonstrated expertise in black box/white box testing, boundary value analysis, equivalence partitioning, and regression testing.
- Introduced test automation concepts and CI/CD workflow integration for iterative development improvements.
- Teaching automation tools such as Selenium, chrome driver, Gecko drivers.
- Helping students with projects and implementing them.
- Provided hands-on training on integrating test automation tools with Jenkins for continuous integration workflows.
- Supported students to understand version control practices (Git) for managing test automation codebases effectively.

Electrical Engineer | AUTOKAST LIMITED | Cherthala, Kerala, India | September 2020 - September 2021

- Supervised operation and maintenance of 110kV/11kV substation with a focus on safety and reliability.
- Designed and implemented PLC based controllers and protection/control logic using ladder logic and function blocks.
- Developed Python scripts to automate recurring tasks.
- Developed single-line diagrams, I/O lists, wiring schedules, and technical documentation for industrial systems.
- Performed component-level troubleshooting on PLC-monitored high-pressure molding lines and ARC furnace controllers. Wrote production grade PLC code with version control, code reviews, and standardized naming conventions.
- Coordinated maintenance schedules and led failure analysis activities to minimize downtime.

EDUCATION

Postgraduate Certificate, Software and Information Systems Testing
Fanshawe College | 2023 | GPA: 3.90/4.2 (Dean's Honor)

Postgraduate Certificate, Electronics and Embedded Systems Development
Fanshawe College | 2022 | GPA: 3.71/4.2

Bachelor of Technology, Electrical and Electronics Engineering
APJ Abdul Kalam Technological University | 2015 - 2019 | CGPA: 7.38/10

SKILLS

- Failure analysis and debug: PCBA diagnostics, IPC-A-610 quality standards, root cause analysis, system integration, component-level repair, incoming visual inspection, FA report documentation.
- Programming & Automation: Python, shell scripting, test automation, Strong object-oriented programming background in C/C++ and capable of writing high quality codes, knowledge in VHDL hardware description language.
- Lab equipment: oscilloscopes, logic analyzers, Phabrix, multimeters, Quantum Data 780D, WFM7120, VM700T, specialized broadcast equipment and custom in-house test tools.
- EDA & Schematics: PADs, ViseCAD, schematic reading, datasheet interpretation, circuit analysis.
- Knowledge of using Xilinx Vivado software for design modification and troubleshooting.
- Systems & Tools: Linux/Ubuntu, Shell scripting, Windows, MS Excel, Tera Term, PuTTY, WinSCP, command prompt, firmware/BIOS updates.
- Hardware Knowledge: High-speed digital design, memory interfaces, PCIe, network protocols, broadcast systems, server assembly/configuration, SPI and I2C configurations.
- Lab Management: SOP creation, lab expansion planning, equipment maintenance.
- Development tools: GitHub, Jira, Confluence; strong Git version control skills; Applied AI based solutions to accelerate hardware/software troubleshooting.
- Presentation & Reporting: Skilled in delivering technical findings and failure analysis results to senior management and cross functional teams for strategic decision making.