

MUHAMMAD AZRUL AKMAL BIN MOHD KAMIL

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PERSONAL PROFILE

Dedicated and detail-oriented Test Technician with strong expertise in Electronic Integration and Testing Engineering. Skilled in troubleshooting, debugging, and test system development using LabVIEW, Python, and automated equipment. Recognized for ensuring the highest standards of product quality, reliability, and performance. Passionate about leveraging technical knowledge and collaboration to deliver innovative, high-performing solutions that exceed industry standards.

EDUCATION

Polytechnic Malacca, Malacca

Diploma in Electronic Engineering Control

June 2012 - Dec 2014

SMK Taman Mutiara Rini, Johor Bahru

Sijil Pelajaran Malaysia (SPM)

Jan 2007 - Dec 2011

PROFESSIONAL EXPERIENCE

Bissell Services Malaysia SDN BHD

Test Technician (Electronic Integration Engineering)

Apr 2022 – Present

- Perform and oversee durability and reliability on consumer products to ensure compliance with design and quality standards.
- Collaborate with R&D and engineering teams to provide insights into product performance and suggest improvements.
- Deliver high-quality test documentation and detailed analysis reports, supporting critical engineering and management decisions with data-driven evidence.
- Design, develop, and optimize automated testing systems using LabVIEW and Python, significantly improving test accuracy, efficiency, and repeatability.
- Skilled in operating and integrating advanced measurement and diagnostic tools including Thermocouples, Digital Multimeters, Data acquisition (DAQ) systems, DC/AC Power Supplies, DC Electronic Load and Data Loggers for precision data acquisition.
- Conduct GR&R (Gage Repeatability & Reproducibility) studies to validate test processes, ensuring consistency and alignment with headquarters' global testing standards.
- Proactively troubleshoot and resolve electronic and system issues to minimize downtime and ensure smooth test lab operations.
- Uphold a high standard of safety, organization, and ISO compliance, consistently ensuring a professional, reliable, and audit-ready test environment.

Celestica Electronics (M) SDN BHD

Sr. Test Technician (Testing Engineering)

May 2021 – Apr 2022

- Skilled in troubleshooting and debugging electronic circuitry, PCBA, and mechanical assemblies to ensure optimal product performance.
- Provide technical support for Manufacturing Execution System (MES) and related production systems, ensuring smooth and efficient manufacturing operations.
- Investigate, analyze, and coordinate solutions to resolve MES and process-related issues, working closely with production teams, IT, and external vendors to maintain uninterrupted workflow.
- Assist in the development of operating procedures and training materials (Work Operating Instructions) to improve process consistency and operator competency.
- Act as a key liaison between production and manufacturing teams to address and prevent recurring test or system issues, ensuring timely resolution and minimal downtime.
- Support the transition and transfer of new products and testing processes from R&D to production, ensuring readiness and reliability for mass manufacturing.
- Execute product qualification and test validation (IQ/OQ/PQ) based on defined protocols, ensuring every product meets reliability and performance standards before release.

Venture Technocom SDN BHD

Test Technician (Testing Engineering and Debug)

Dec 2015 – May 2021

- Diagnose, troubleshoot, and repair testers and fixtures efficiently, utilizing fault logging and downtime tracking systems to minimize production impact.
- Debug and repair failed products to support timely production shipments, ensuring minimal disruption to delivery schedules.
- Conduct monthly preventive maintenance (PM) following standard work instructions to ensure consistent equipment performance.
- Maintain detailed documentation of all repairs, modifications, and improvements for traceability and continuous process enhancement.
- Collaborate with operations and test engineers to drive continuous improvement initiatives and foster a "Quality First" culture.
- Support engineers by providing accurate and timely data for the development and validation of new models.

SKILLS

Software & Programming: LabVIEW Development 2025, Python 3.13, Minitab 19, Microsoft Excel, Microsoft Office Suite (Excel, Word, PowerPoint).

Hardware & Hands-on: Debugging & Troubleshooting PCBA, Schematic Drawing, Precision Soldering & PCB Assembly, Equipment Installation and basic industrial wiring.

Testing: Consumer Product Testing (R&D) , Environmental Chamber Handling (Reliability Testing) and Durability Assessment.

REFERANCES

Sam, Samsudin

Position: Lab supervisor, Bissell Services Malaysia SDN BHD
Contact: 013 339 8584

Hairul Ridzuan

Position: Sr Test Engineer , Celestica Electronic (M) SDN BHD
Contact: 011 1571 5492