MUHAMMAD AKMAL

m.akmal5915@gmail.com | (60) 134697620 | Kulim, Kedah

SKILLS

- **Software:** SolidWorks, Labview, TestStand, MATLAB, PLC, C language, C++, Agile, JIRA, Cadence
- **Technical:** Machine Troubleshoot, Software Debugging, Verification Test, Reliability Test, ECO, RFQ, Bill of Material
- **Design:** Electrical Schematic, Electrical 3D CAD
- **Language:** Malay, English
- **Soft Skills:** Communication, Project management, Tester training, Customer Management,

EXPERIENCE

Functional Test Engineer Jan 2022 - Jun 2023
Plexus Manufacturing Sdn Bhd, Bayan Lepas, Penang (1 yr. 6 mos.)

- Develop tester machines from design phase to deployment in manufacturing.
- Programmed and modified the test executive using LabView and TestStand and design the system schematics using Cadence Capture CIS when developing test system.
- Generate Bill of Materials of the design then request for quotes and purchase the materials to ensure arrived in schedule.
- Assemble hardware to the tester and perform integration between the software and hardware
- Troubleshoot and debug the test system of High-Level Assembly, Hipot and PCBA system using Keysight instrument such as oscilloscope and digital multimeter
- Perform Verification and Validation for the design requirement followed by Gauge Repeatability and Reliability Test of tester.
- Setup tester in manufacturing and train the manufacturing engineers, technician and operators of the new tester
- Perform post production support to newly deploy tester in manufacturing and troubleshoot manufacturing related problems.
- Prepared technical engineering documentations and manuals about the tester and applied Engineering Change Order to existing documents using Agile system.
- Managed project to meet the deadline and to not exceed the budget provided

Electrical Engineer Trainee Jul 2021 – Jan 2022
Stratus Automation Sdn Bhd, Bayan Lepas, Penang (6 mos.)

- Comprehend new software that is Solidwork Electrical 3D and train other electrical engineers of the new software.
- Reworked the Stocker machines' Power Distribution Unit (PDU) schematics from Draftsight software to Solidworks Electrical: Schematics and generated a 3D model of the wiring circuit diagram using components from bill of materials for wire sizing.
- Generate bill of material of existing machine and propose the electrical components to newly build machine.
- Assisted Senior Engineer on counting modules in clients' factory for record keeping.

Manufacturing Technician Trainee Jan 2018 – Jun 2018
First Solar, Kulim Kedah (6 mos.)

- Ensured the HIPOT testing and Boxing machine ran smoothly from the first stage to the last stage of testing.
- Verified the solar panels free of any excess adhesive to ensure they met with the quality control.
- Inspected and replaced any sensors that were faulty or following the Preventive Maintenance schedule for replacing machine components.
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EDUCATION

University Kuala Lumpur - Bachelor of Engineering Technology (Hons) in Mechatronic (Automotive) 2018 – 2022

- CGPA : 3.41

University Kuala Lumpur – Diploma in Technology Automated Regulation and Control 2015 - 2018

- CGPA : 3.37

ACHIEVEMENT

- Lead a wide system update across 30 testers with over 10 engineers of different department in under a month throughout multiple manufacturing site

REFERENCE

Zulhilmi Mat Jusoh – Senior Functional Test Engineer
011-10018113