KRISHAN ARPIDANI

Package Reliability Operation Engineer

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SUMMARY

Dynamic and driven Package Reliability Operation Engineer with a proven track record of leadership, adept problem-solving capabilities, and a passion for project design and collaboration. With a strong technical foundation and a natural inclination toward effective communication, I am poised to contribute meaningfully to manufacturing engineering. Proven ability to apply theoretical knowledge to practical scenarios, demonstrated by a 95% project success rate.

EDUCATION

Universiti Putra Malaysia **Serdang, Selangor**

Bachelor of Electrical and Electronic Engineering (Hons) Jun 2020 – Aug 2024

- Majored in Control System and took relevant courses regarding to Electrical and Electronic Engineering
- CGPA: 3.4 (Dean's List for Semester 7)

Ungku Omar Polytechnic **Ipoh, Perak**

Diploma in Electrical and Electronic Engineering Jun 2017 – April 2020

- CGPA: 3.95 (Dean's List for 6 consecutive semesters)

EXPERIENCE

Micron Memory Malaysia Sdn. Bhd. **Batu Kawan, Pulau Pinang**

Package Reliability Operation Engineer September 2024 – Current

- Received and managed reliability job requests, ensuring accurate documentation and prioritization of tasks.
- Coordinated and executed reliability stress tests (e.g., temperature cycling, vibration, mechanical stress) for SSD and module components within defined timelines, maintaining strict adherence to quality standards.
- Collaborated with engineering and process teams to gain hands-on exposure to new test methodologies, design of experiments (DOEs), and root cause analysis techniques to support continuous improvement.
- Facilitated day-to-day lab operations, ensuring smooth execution of reliability testing, resource allocation, and compliance with safety protocols.
- Monitored sample flow and ensured timely disposition of tested units, maintaining traceability and proper handling of test samples.
- Actively participated in team coordination and communication, fostering a collaborative work environment and aligning team efforts with project goals.
- Successfully led process improvement projects aimed at enhancing existing workflows, reducing cycle times, and increasing labour productivity through automation, process standardization, and effective resource utilization.

Sanmina-SCI Systems (M) Sdn. Bhd. **Perai, Pulau Pinang**
Process Engineer Internship (Bachelor's degree) July 2023 – October 2023

- Earned Yellow, Green, and Blue Belt certifications in Lean Six Sigma, demonstrating proficiency in process optimization and problem-solving methodologies.
- Implemented a Sisense BI project resulting in annual soft savings of ~$8,000, enhancing financial efficiency and data-driven decision-making capabilities.
- Maintained exceptional yield percentages, consistently achieving 90% and above for SnapOne PCBA process, ensuring high-quality production and operational excellence.
- Spearheaded the deployment of yield and defect pareto dashboards using Sisense BI, alongside initiating continuous improvement initiatives such as Kaizen and DMAIC, leading to enhanced process efficiency and effectiveness.

Sanmina-SCI Systems (M) Sdn. Bhd. **Perai, Pulau Pinang**
Assistant Engineer Internship (Diploma) December 2019 – April 2020

- Responsible for programming the Automated Optical Inspection (AOI) machine and ensure that it was running efficiently.
- Creating work instruction of the AOI machine for the operators to follow.
- Developed a strong understanding of AOI equipment and how it can be used to enhance the efficiency and effectiveness of quality control processes.
- Collaborated closely with engineers and team members to enhance the performance of the AOI machine, resulting in a 25% decrease in downtime.

PROJECTS

Smart Hydroponic Monitoring System using Solar Technology **October 2023**

- Integrates solar technology to power sensors that monitor crucial environmental parameters, including temperature and humidity in the surrounding, as well as water level and water temperature and automated light control within the hydroponic system
- Employing a Wi-Fi module for connectivity, the system transmits real-time data to a central control unit, utilizing an Arduino microcontroller for efficient data processing and analysis.

Automated Potted Plant Watering System **January 2023**

- Automatically adjust the water output coming from the pump to the potted plants according to the soil moisture level inside the soil.
- Conducted thorough testing and optimization of the watering system, achieving a 98% accuracy rate in adjusting water output according to soil moisture levels.
- Implement Arduino Uno R3, Soil Moisture Sensor, Water Pump, Servo Motors and MIT App Inventor for the application.

Expandable Life-Saving Internet of Things Wristband (ELIOT) **November 2022**

- Secured 3rd place in the Intel Industry-University Challenge 2022, outperforming numerous competing teams.
- The aim of our project is to solve the safety issue by incorporating a GPS tracker in the wristband, enabling a relief team to locate victims. The ELIOT wristband has a built-in heart-rate sensor and gyroscope to prioritize rescues.
- Implement Arduino Uno R3, Intel OpenVino, Heartbeat sensor, GPS sensor, gyroscope and others.

AWARDS

- 3rd Place in Intel Industry-University Challenge 2022 — Nov 2022
- Silver Award for Best Sports Program Leader Award Among Universities in Malaysia — Sep 2021
- President of the Sports Secretariat, Tenth College Representative Council — Jun 2021
- Dean's List Award for 6 Consecutive Semesters for Diploma in Electrical and Electronic Engineering — Jun 2017

SKILLS

- **Major Courses**: C Programming Language, Semiconductor Devices, Basic and Advanced Electromagnet, Analog and Digital System, Control System, Microprocessors, Microelectronics, Electrical Machines and Signal Processing
- **Technical**: AutoCAD, Programmable Logic Controller (PLC), Arduino, C Programming, Automated Optical Inspection (AOI), MATLAB, Microsoft Office, and Proteus.
- **Language**: Native in Malay and Bilingual Proficiency English

REFERENCES

1. **Vickneswaran A/L Jagathisvaran**
   Director, Global Quality Reliability Operation
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2. **Prof Dr. Mohammad Hamiruce Marhaban**
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