Jia Jun Lee

About Me

A complex problem-solver with automation and analytical mindset. Capable of self-learn and adapts to new technology/industry skills.

Posses various technical skillsets and ability to apply them in solution of business problems.

Experienced working in semiconductor field and Solid-State-Drive (SSD) Assembly/Test.

View more details in Jia Jun Lee's Portfolio.

My Contacts

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Education

2016 | 2020

Electrical & Electronic Engineering

Bachelor Degree of Engineering

Universiti Sains Malaysia

- First Class Bachelor Degree Honor
- Academic CFGPA grade of 3.96/4

Skill Sets

- Robotic Process Automation (UiPath)
- Database (Snowflake, MSSQL, mySQL)
- Programming (Python, Javascript, Typescript)
- Full-stack Web Dev (Next JS, React)
- Data Analytics (Tableau, PowerBI)
- Git, JIRA, Confluence
- Control Systems (MES, SPC, RMS)
- Credential Management (Vault)

Working Experience

2020 – Present **Senior Client + Enterprise SSD NPI Engineer @ Micron Technology, Penang, Malaysia**

Key responsibilities:

- Prototyping, Developing, Ramping and Qualifying Client/Enterprise SSD Product from NPI to High-Volume-Manufacturing (HVM)
- Responsible to ensure 100% NPI qualification success with DOE/Development works to ensure high reliability performance
- Analyze and identify possible solutions on time-zero and reliability-related issues
- Responsible for smoothen NPI executions to deliver samples on-time
- Develop improvement strategy to smoothen NPI executions to achieve on-time sample delivery, cost reduction, minimize quality deviations and improve overall efficiency.

Achievements

- Introduced BOMinator (Automated MAM BOM Creator), effectively “terminates” the traditional manual, time-consuming, and error-prone aspects of BOM creation. Vertical efficiency improvement with no resource expansion needed, high-speed robot executions, enabling ramp with $23703 labor savings per annum.
- Introduced ReadyMS (Automated Readiness Checker), designed to streamline and provide overview on MAM/RMS Readiness in Tableau Dashboard. Early-shift-left detection project, resolving issues before it impacts production with $26880 labor savings per annum.
- Improved recipe preparation time to align with increased NPI Demand Loading, by introducing Script-Automated SWR recipe creation and non-Proto BOM recipe creation.
- Minimized quality events & scrap cost reduction by introducing Automated Recipe vs BOM Checking Algorithm, to ensure components mounted are correct on its corresponding designators.
- Designed Continuous full/incremental data ingestion ETL pipelines, integrated with Snowflake, to ease and automate reporting/analytical purposes.
- Smoothen Engineer Investigation Workflow by script automating JIRA issue creation for every drive rejected with details populated, connected to Machine Data for 1st-level story-telling of the issue.
- Developed full-stack web app (MSSQL-React-NextJS) for SSD packing & shipment traceability, managing the creation and association of box UID - tray UID - lot UID - drive UID with its corresponding label generated.
- Develop, qualify and enable Low-Temp Solder Paste (LTS) to be integrated on Client SSD product.
- Develop, qualify and enable the first Gen 5 High-Performance SSD Product with complex Form Factor (E3.S and E1.L)