



# ONG JIA YING

## Test Process & Equipment Engineer



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[Whatsapp me.](#)

## EDUCATION

### B. Eng. (Hons) Electrical & Electronic

Universiti Tunku Abdul Rahman (UTAR)  
May 2016 – May 2020  
CPGA: 3.69 (First Class)  
USSDC (soft skill): Merit

### Foundation in Science

Universiti Tunku Abdul Rahman (UTAR)  
May 2015 – May 2016  
CPGA: 3.68

### PLKN (National Service Training Programme)

Kuala Nerang, Kedah  
Dec 2014 – Feb 2015  
Member of marching drill formation.

### SPM (Malaysian Certificate of Education)

SMK Gurun  
Dec 2014  
Result: 8A, 2B

## LANGUAGE

- English
- Mandarin
- Malay
- Japanese
- Hokkien

## About Me

As an experienced test process and equipment engineer (5 years), I specialize in validating, implementing, controlling, and optimizing test process framework to ensure the reliability and performance of complex system. Besides that, I also have expertise in data analytic and coding.

## WORK EXPERIENCE

June 2020 – present

### INTEL TECHNOLOGY SDN. BHD

#### Module Engineer / Senior Test Process & Equipment Engineer

- Proven record of good performance:
  - Grade 3 (June 2020) → Grade 5 (April 2022) → Grade 6 (April 2024)
  - Awarded as Quality Hero on year 2022.
- Process/productivity improvements & Lean manufacturing:
  - Qualified test program to enable a feature which can save ~47% TTR on fail events.
  - Experimented & deployed continuous testing process eliminating ~40% capacity wastage.
  - Standardized PCO config, saving ~0.31 hrs of conversion time.
  - Implemented lean process for part replacement, improving efficiency & saving ~\$4.9k/year.
- Defect reduction / cost saving project & Quality control:
  - Coordinate & plan new part DOE, validation, implementation & monitoring which success resulted in < 1% fallout.
  - Analyzed data with Pareto technique & deployed new test, saved ~60% of expensive component replacement usage (~USD\$2.7K/unit).
  - Detected & recovered in-house quality issue, preventing escape to customer.
  - Deployed daily monitoring script to ensure the quality and process of the new part installation done correctly by manufacturing.

## TECHNICAL SOFTWARE TOOLS

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- Microsoft 365 Applications (eg: Excel, Word, PowerPoint)
- Generative AI (eg: ChatGPT, Copilot)
- Visual Studio Code / Visual Studio
- Spyder & Jupyter Notebook
- JMP
- PowerBI
- GitHub Desktop
- MATLAB
- MPLAB
- CICON PLC
- EDA (Electronic Design Automation)
- Bambu Lab
- Free CDA

## PROGRAMMING LANGUAGE

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- Python
- C / C++
- Bash commands
- JSL
- SQL
- HTML, CSS & Javascript

## OPERATING SYSTEM

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- Window
- MacOS
- Ubuntu (Linux)

## TECHNICAL HARDWARE TOOLS

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- Oscilloscope
- Multimeter
- Frequency counter
- Power supply (bench type)
- Torque screwdrivers & allen keys
- Soldering station
- Microscope / Magnifier

## MY WEBSITE QR CODE:

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[https://jying97.github.io/my\\_portfolio/](https://jying97.github.io/my_portfolio/)

The information on my website closely mirrors my resume, but offers a more interactive experience.

- Scripting & Data Projects & Machine Learning(ML):
  - Developed Python script to auto-summarize data, saving ~80% of RMA data prep work.
  - Analyzed, trained, and modelled predictive ML model achieving 90% accuracy & improving first pass yield by 20%.
  - Assisted in validating & providing data samples to retrain text bucket ML model for better accuracy.
  - Developed SQLpathfinder script for auto-triggered daily reporting, monitoring, and abnormality detection.
  - Developed a PowerBI dashboard, improving engineering reporting TPT by 50%.
- Excursion management, Leadership & Responsibility:
  - Willing to expand my scope and take ownership on more products.
  - Led & resolved excursions/interruptions with prompt 8D actions to prevent downtime and minimize impact.
- Product transfer, New product integration (NPI) & Outsource:
  - Delivered training & provided investigation finding during outsource Factory cert activities.
  - Obtained NPI Factory cert & Transfer cert.
- Unit exit & Audit:
  - Cleared WIP, cycle count, compiled tool inventory for space & budget prep. Disposition & hands-on tools deinstallation for resale & reuse. Documents data mapping & retrieving for custom audit.

Oct 2018 – Dec 2018

### TOP GLOVE SDN. BHD

Trainee (Industrial training / Internship)

- Project management, power distribution and protection design, vendor communication, site visits.

## CERTIFICATES

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- Six Sigma Yellow Belt.
- Advanced Python Scripting.
- Data Scientist – Basic, Intermediate & Advanced.
- Microsoft Excel – Intermediate to Advanced.
- Machine Learning A-Z: AI, Python & R.
- The Complete SQL Bootcamp: Go from Zero to Hero.
- Business Writing Skills for Operation Professional.
- Presenting to Influence.
- The Essentials of Finance and Accounting for Executives.
- ATM Data Fluency Level 3: Advanced

## REFERENCES

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Goh Fong Hsia

Intel | Module Engineering Manager

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