

# GANG YING LEE,

## PYTHON DEVELOPER

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PROFILE	<p>Diligent Engineer with overall more than 6 years of engineering industry experience working with world-leading companies such as Intel, Motorola Solutions and AMD. In details, 3+ years' experience in software feature and firmware development and 5+ years' experience in Python automation development. Knowledgeable in user interface, python application, python-based web application, data manipulation, management and reporting, web scraping, software feature and firmware development, automation scripting, testing, and debugging processes. Well experienced in software development lifecycle and skilled in problem solving and performing software tasks from start to finish. Proficient in various platforms, programming languages, and embedded systems. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team and leading junior engineer.</p>

## EMPLOYMENT HISTORY

FEBRUARY 2023 - PRESENT

**ASSOCIATE III (SENIOR) – SEMICONDUCTOR PRODUCT VALIDATION ENGINEER, UST GLOBAL (M) SDN BHD**

Penang, Malaysia

*Python Developer (AMD Global Services (M) Sdn Bhd)*

- Jira Task Component lead for Scripting Automation services
- Support team on Python script error debug and fixing.
- Support team on Python script development.
- Design and develop Python automation based on team's request to replace manual works.

- Design and develop Python library based on team's request to support their python automation script.
- Design and develop window based Python application and Python-based web application.
- Perform data warehousing, data manipulation, data analysis, data management, and data reporting via MySQL database, MS Excel, and MS Access.
- Support team on lab host software and tools setup.
- Support team on lab platform setup.
- Experienced in GitHub as software version control tool to keep track of different software changes.
- Key Project
  - Jira Task Progress Automation
    - Developed python script to grab data from Jira, perform data calculation and data analysis, populate the data to MS Access database, and present the data in table and graphical view on PowerBI and Streamlit web application.
    - Design and developed report on EazyBi with data sourced from Jira and present the report on Jira dashboard.
  - Inventory Management System
    - Design and develop window based Python application to ease lab team's daily task such as tracking inventory level, work order, bill of material, shipping details and other stock details.
    - Features include item register, item search, item check in and check out, info edit, bulk/general item track, item shipment.
    - Design and develop GUI interface for the application.
    - Design and develop backend data handling and data processing.
    - Perform data migration from Excel to application backend database.
    - Backend database includes MySQL, MS Access and MS Excel.

MARCH 2020 - FEBRUARY 2023

**SOFTWARE ENGINEER, MOTOROLA SOLUTIONS MALAYSIA SDN.BHD.**

Penang, Malaysia

- Experienced in Agile software development life cycle and product development process.
- Experienced in Git as software version control tool to keep track of different software changes.
- Collaborate with teams to deliver system feature and firmware development for TETRA software communication devices used for professional and mission critical markets in the commercial, government and industrial segments.
- Collaborate and add value to product and code quality by participating in peer design and code reviews.
- Perform manual radio testing to ensure that the implementation of new system features does not affect radio performance.
- Engaged in the development and execution of unit tests and automated test cases.
- Collaborate with cross functional teams to resolve product issues and reported bugs.

- Perform root cause analysis and outlines corrective action for given problems.
- Collaborate with cross functional teams to perform validation test for new build and software release.
- Helped to improve inventory control for BSI card by controlling the distribution of BSI card upon request and tracking the BSI cards from time to time by cardholders and their declaration deadlines.
- Worked as the person in charge for the TETRA Software Test Automation.
- Mentor and lead junior software engineers.
- Key Project
  - TETRA Software Test Automation
    - Managing, maintain and update Jenkins host configuration to trigger multiple Jenkins's job that carry out different test automation in daily basis for every new software release.
    - Maintain, enhance, and develop test automation python script to grab data from Bitbucket, Jira and Google sheet, perform data calculation and data analysis, populate data to Excel, Google sheet and MySQL database, and present the data in table and graphical view on Confluence pages.
    - Monitor CI/CD jobs and troubleshoots failures.

AUGUST 2018 - MARCH 2020

## **ELECTRICAL VALIDATION ENGINEER, INTEL MICRO M SDN BHD**

Penang, Malaysia

- Perform post-silicon validation task in term of FPGA Tx & Rx.
- Improve the efficiency of Regression test by developing and implementing automation script to automate the Regression test.
- Perform test bench setup and board troubleshooting.
- Improve the consistency of test benches automation script by develop unified lab instrumental control automation script.
- Design and develop Python script to grab, extract, manipulate, and analyze data obtained from test and populate the data in table and graphical view in Excel.
- Key Project
  - Lab Instrumental Automation
    - Developed python script to automate the control of robotic arm and all electronic lab equipment that used under the validation team's lab station.
    - This script was utilized as a standard reference for instrument automation script across validation teams and successfully improved code consistency of lab automation scripts.
  - Regression Test Automation
    - Developed python script to automate regression test by automating robotic arm and electronic lab equipment with sequences of test algorithms.

- Developed python script to automate the process of data analysis for data collected from regression testing.
- Successfully improved work efficiency by replacing manual regression testing.

SEPTEMBER 2017 - AUGUST 2018

### **PACKAGE SIPI ENGINEER, INTEL MICRO M SDN BHD**

Penang, Malaysia

- Perform pre-silicon validation and analysis task.
- Interpreted the electrical parasitic of physical layout, model generation, simulation, and feasibility analysis.

## **EDUCATION**

SEPTEMBER 2017 - SEPTEMBER 2021

### **MASTER OF BUSINESS ADMINISTRATION, INTI INTERNATIONAL UNIVERSITY**

3.31 - Grade A for MBA thesis with the title of "THE INFLUENCE OF EMPLOYEE BENEFITS TOWARD JOB SATISFACTION OF MNC EMPLOYEES IN PENANG".

AUGUST 2015 - AUGUST 2017

### **BACHELOR'S DEGREE (HONS) IN ELECTRICAL AND ELECTRONIC ENGINEERING, UNIVERSITY OF BRADFORD**

3.54 (First Class Honors)

## **SKILLS & SOFTWARES**

Python	C	C++	Git
Jenkins	Jira	Bitbucket	Confluence
SQL	MySQL	MS Access	Streamlit
Pillow	Beautiful Soup	Web Scrape	PowerBI
EazyBI	Pandas	Numpy	Tkinter
VBA	Root Cause Analysis	Problem Solving	Debugging
Agile	Scrum	CI / CD	Embedded Systems
User Interface	Snowflake	Test Automation	Unit Test
Regression Test	Airflow	REST API	API
OOP	HTML	Linux	Unix
GitHub	Java	Tcl	AutoIt
Docker	ALM	NLP	JSON
Data Manipulation	Data Management	Data Reporting	Data Warehousing
Coaching	Mentoring	Arduino	Raspberry Pi
Beaglebone black	Visual Studio	Anaconda Spyder	MobaXterm

Remote Desktop Connection	Putty	Notepad++	PyCharm
MS Word	MS Excel	MS PowerPoint	Power BI Desktop
Eclipse	SPSS Statistics	MATLAB	MPLAB X IDE
Multisim	VisTA Studio	Quartus II	SDLC
Eagle	AutoCAD	Documentation	

## LANGUAGES

English      Chinese      Malay      Cantonese

## TRAININGS / CERTIFICATES / AWARDS

MAR 2023

**INTRODUCTION TO AIRFLOW, UST**

FEB 2023 – MAR 2023

**AWS CLOUD PRACTITIONER ACCELERATOR - EXAM PREPARATION, AWS**

FEB 2023

**INTRODUCTION TO SNOWFLAKE, UST**

FEB 2023

**INTRODUCTION TO TEST AUTOMATION FRAMEWORKS, UST**

FEB 2022 – MAY 2022

**EMBEDDED SYSTEMS TRAINING, CREST**

- Final project titled Smart Home Lighting System has been developed and presented at the final session of the course.

MAR 2022

**LEARNING PYTHON (2020), LINKEDIN**

MAR 2022

**LEARNING JAVA, LINKEDIN**

APR 2020

**CERT PREP: SCRUM MASTER, LINKEDIN**

OCT 2018

**CERTIFICATE OF PRACTITIONER, MYTRIZ & MATRIZ**

- Completion of Level 1 TRIZ practitioner.

AUG 2016

**MOTOROLA SOLUTIONS SCHOLARSHIP AWARD, MOTOROLA SOLUTIONS MALAYSIA SDN.BHD.**

MAY 2016

**LAUREATE AWARD FOR EXCELLENCE IN ROBOTICS ENGINEERING, LAUREATE INTERNATIONAL UNIVERSITY**

- Third Place awards in the third edition of the Laureate Award for Excellence in Robotics Engineering with the robotic device I-Ball for mission critical rescuer task.

JUL 2015

**CERTIFICATE OF PARTICIPATION, ASIA SCHOOL OF BUSINESS**

- Participant of 48-Hour MakerFest

2015

**CERTIFICATE OF APPRECIATION, PENANG SCIENCE CLUSTER**

- Mentoring high school students throughout the Young Innovate 2015 national competition.

APR 2014

**CERTIFICATE OF PARTICIPATION, TANDEMIC**

- Participant of Makeweekend Robotics