

GIBSON TAN YAO SHENG

Contact Information:

Email: TYSGibson@gmail.com

Phone: 016-8780844

LinkedIn: <https://www.linkedin.com/in/tysgibson/>

A. Educational Background

2016 – 2019: Bachelor of Engineering (Chemical), Curtin University Malaysia (2nd Class Upper)

Course Weighted Average (CWA): 73.42% (Equivalent CGPA: 3.47)

- Sarawak Energy Berhad (SEB) Scholarship Recipient (Unbonded)
- Letter of Commendation Recipient - Faculty of Engineering, Chemical Engineering Department (Semester 1 and 2, 2016; Semester 2, 2017; Semester 1, 2018)

B. Employment History

2021 – Present: Data Analyst/Data Scientist– Intel Corporation

- Collaborated with cross-functional teams to distill customer product requirements into actionable insights for semiconductor manufacturing process enhancements.
- Leveraged statistical tools and data visualization (Python, Excel, SQL, Power BI) to analyze manufacturing data, identifying patterns, anomalies, and optimization opportunities.
- Applied advanced data analysis techniques, including linear and logistic regression, hypothesis testing and statistical models to streamline existing processes, resulting in improved efficiency and yield and contributing to competitive advantages.
- Spearheaded New Product Introduction (NPI) efforts by defining data-driven product requirements and coordinating design strategies for manufacturability, ensuring successful product launches.
- Utilized Design of Experiments (DoE) methodologies to systematically gather and analyze data, collaborating with process engineers to drive continuous process performance improvements.
- Championed scripting and automation initiatives for data collection and preprocessing, enabling peers to efficiently access and manipulate data for analysis using Python and SQL.
- Developed and implemented logistic regression models to predict manufacturing process outcomes, enhancing decision-making and process optimization.
- Transformed complex manufacturing data into clear visualizations, dashboards and actionable insights, enabling stakeholders to make informed decisions.

2020 – 2021: Process and Manufacturing Engineer – Jabil Circuit Sdn Bhd

- Developed and implemented new processes for EMS manufacturing to increase efficiency, yield and reduce costs.
- Led and assisted in NPI activities for new products and technologies by providing technical support for equipment selection, installation, and qualification.
- Maintained and repaired equipment used in EMS manufacturing by troubleshooting and repairing electronic, mechanical, and pneumatic systems.
- Conducted regular equipment maintenance to ensure optimal performance.
- Troubleshooted and resolved equipment issues such as electronic, mechanical, and pneumatic systems to minimize downtime.
- Collaborated with cross-functional teams to improve product quality and reliability by implementing new technologies and methodologies.
- Collaborated with process engineers to optimize equipment performance by gathering data and analyzing process parameters.

2018 – 2019: Process Engineer (Intern) - PETRONAS Carigali Sdn Bhd (PCSB), Miri Sarawak

- Explored various upstream processes in crude oil terminals and onshore wellheads under the supervision of experienced engineers.
- Performed small scale assignments and technical work under the supervision of experienced process engineers (Performing valve sizing and hydraulic calculations for level control valves while utilizing programs such as Navisworks and Pipesim, Analysing and compiling projected forecast data for supervisor).
- Delivery as a Scribe and report preparation for Hazard and Operability (HAZOP) studies for facilities improvement proposal (FIP) projects. (MCOT Closed Drain Vessel, Surge Pump Liquid Diversion, Baram Potable Water Tank).

C. Certifications

Google Advanced Data Analytics Specialization - Issued: Aug 2023

Credential Link: <https://www.coursera.org/account/accomplishments/specialization/certificate/A43GUEB4GRX7>

- Proficient in Statistical Analysis Tools, Linear Regression, Logistic Regression, Machine Learning, and Data Analytics.
- Mastered Statistical Data Analysis, Data Science, and Python programming.

Google IT Automation with Python Specialization - Issued: Mar 2023

Credential Link: <https://www.coursera.org/account/accomplishments/specialization/certificate/QQLNLD7KZYQF>

- Acquired skills in Version Control and advanced Python programming.
- Competent in automating IT tasks using Python scripting.

D. Technical Skills

- Data analysis and automation using **SQL** and **Python**.
- Statistical analysis of data using **JMP**
- **Microsoft Office**
- **Semiconductor manufacturing processes and equipment**
- **NPI (New Product Introduction)** experience
- **Power BI**
- **Version Control Systems with GIT**

E. Referees

Associate Professor Chua Han Bing
Head of Dept (ChemE) Curtin University, Malaysia
013-9320119 (Hp)
085-442410 (Office)

Mr. Faisal Abdul Latif
Snr Process Engineer Petronas Carigali Sdn Bhd
019-2270233 (Hp)

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Gibson Tan Yao Sheng

chua.han.bing@curtin.edu.my

Faisal_latif@petronas.com
