

NAWAT KAWKEEREE

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Website: <https://nawatkaw.github.io/resume/>

EDUCATION

National University of Singapore (NUS)

Aug 2018 – May 2022

- Bachelor of Engineering in Chemical Engineering, Honours
- Current Cumulative Average Point (CAP): 4.24/5.00
- Date of Graduation: May 2022
- Relevant Modules: Programming Methodology; Process Safety, Health and Environment; Process Engineering for Gas/LNG and Pharmaceutical Industries; Advanced Process Dynamics & Control; Process Modelling and Numerical Solutions; Project Engineering; Optimisation of Chemical Process; Sustainable Process Development

WORK EXPERIENCE

Process & Equipment Engineer, Micron Semiconductor Asia Pte Ltd. , Singapore

Aug 2022 – Present

- Lead a project in developing an automated Gas Qualification Information Tracking System (GQIS) Platform with Agile Project management Methodology for Dry Etch department using Microsoft Excel, Power Query, Visual Basic Application, Microsoft Access, Power BI and Power Automate to efficiently keep track of all incoming gas qualifications, hence improving workflow's efficiency through reduction of time spent by 60%
- Developed a dashboard using Power BI deploying to Dry Etch Department to efficiently monitor uploading of process step into the server together with automated email trigger notification using Microsoft Excel Visual Basic Application hence improving workflow's efficiency by 50%
- Performed Equipment parts evaluation in Dry Etch Process through performing data analysis using JMP Pro Software, helping to improve the process's efficiency by reduce its operating expenses by approximately USD\$18.5K/year
- Maintained process production line through line management via tuning of 15 parameters and perform inspections using Statistical Process Control to ensure each equipment tool is performing at an optimal level

Health, Safety, Security, Environmental Intern, TPSC-Asia Pte Ltd, Singapore

May 2021 – Dec 2021

- Updated 1 P&ID using AutoCAD to correct pipe specifications and off-page connectors and collaborated HAZOP and P&ID discussion in preparation for upgrading the company's wastewater treatment plant system
- Reviewed completed Safety Case report and consolidated and analysed HAZID register, HAZOP of 86 Nodes, 1 LOPA analysis, and 3 SCE events to prepare On-site verification with the Ministry of Manpower (MOM)

Process Safety Engineer Intern, Total Process System Pte Ltd, Singapore

Dec 2020 – Jan 2021

- Designed a Microsoft Excel database containing 45 gases and respective gas density calculation under normal operating conditions to improve usability by 80% for company when doing further calculation
- Designed a sprinkler system involving 26 sprinklers with supervisor's supervision as per NFPA 15

Team Member, International Society for Pharmaceutical Engineering (ISPE) Hackathon Singapore

Oct 2020

- Won First Place for the Hackathon Competition analysing current risks of a pharmaceutical company's paper-based record system and suggesting cost effective digitalized data recording solutions to ensure Pharma 4.0
- Analysed risks in paper-based records systems of a company using Corrective and Preventive Action (CAPA) and Failure Mode Effect Analysis (FMEA) to advise new solutions of data recording

EXTRA-CURRICULAR ACTIVITIES

Neighbourhood Head, Phoenix Neighbourhood House Committee, College of Alice & Peter Tan

Apr 2019 - Aug 2020

- Headed a committee of 11 members across academic year in planning enrichment platforms and initiatives for bonding among 120 residences in neighbourhood, and fostering camaraderie among freshmen and seniors
- Coordinated with freshman orientation organizing committees to recruit and vet through competent orientation group leaders for events to be put in charge of freshmen

ADDITIONAL INFORMATION

- Fluent in English, Thai, and Chinese (both spoken and written)
- Proficient in Power BI, Visual Basic Application, JMP Pro 16, MATLAB, Microsoft Office Suite, and intermediate knowledge of C, Python, ASPEN HYSYS, AutoCAD Plant 3D, Tableau, PHA Pro 8, and Power Automate
- Pursues Dragonboat and personal development by reading self-development books and podcasts, and taking online classes