

NAWAT KAWKEEREE

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

EDUCATION

National University of Singapore (NUS)

Aug 2018 - Present

- Bachelor of Engineering in Chemical Engineering, Honours
- Current Cumulative Average Point (CAP): 4.25/5.00
- Expected 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

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

May 2021 – Present

- Assisted in HAZOP and P&ID discussion and modified 1 P&ID using AutoCAD in preparation for upgrading the company's wastewater treatment plant system
- Automated a uniform laundry tracking system and dashboard collating about 2000 uniforms monthly using Microsoft Excel Visual Basic Application (VBA) Macro and PivotTable function to improve accuracy of delivery by 80%
- 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)
- Reviewed and summarised 2 standards code and practices in process plant namely API 520, API 2000 by extracting relevant information to size pressure relief valves for storage tanks and reactors

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
- Improved 3 conversion tables using Microsoft Excel to effectively standardize units for simple further calculations and increase efficiency by 70%
- 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
- Recommended a short term and a long-term solution in digitalizing data recording systems of a company to improve accuracy and sustain company products' quality

Process Technician, Precision Coating Logistics Pte Ltd, Thailand

Dec 2017 - Jul 2018

- Optimised hard anodization electroplating process for different products to ensure adhere to company's guideline of products' quality
- Executed daily chemical analysis and reports to successfully maintain products and electroplating solutions quality

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 MATLAB, Microsoft Office Suite, and intermediate knowledge of C, Python, ASPEN HYSYS, AutoCAD Plant 3D, Tableau, PHA Pro 8 and GanttProject
- Pursues personal development by reading self-development books and podcasts, and taking online classes