**NAWAT KAWKEEREE**

**Email: nawat.kawkeeree@u.nus.edu Mobile: +65 91769248**

**Website:** [**https://nawatkaw.github.io/resume/**](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