

**EDUCATION****National University of Singapore****Aug 2021 - May 2023**

Master of Science in Safety, Health and Environmental Technology

- Cumulative Average Point (CAP): 4.14
- Relevant modules taken include: Human Factors in Process Safety, Occupational Ergonomics, SHEQ Management Systems, Noise and other Physical Hazards, Resilience and Emergency Planning, Project Engineering, Fundamentals in Process Safety, Fundamentals in Industrial Hygiene

**Melbourne University, Australia****Feb 2019 - Feb 2021**

Master of Engineering Management/Master of Business Administration

- Grade Point Average (GPA): 5.82
- Relevant modules taken include: Risk and Resilience Engineering, Project Management, Strategy and Case Analysis, Strategic Asset Management, Management Communication, Managing Information Systems

**Universiti Teknologi Malaysia****Aug 2013 - Apr 2018**

Bachelor of Electrical Engineering with Honours

- Relevant modules taken include: Principles of Management, Environmental Science and Engineering, Total Quality Management

**EXPERIENCE****Environment, Health and Safety (EHS) Intern****Feb 2023 - Jul 2023**

Safety Resources Pte. Ltd., Singapore

- Conducted a site visit and identified workplace safety risks relevant to work at height, slip, trip and fall and flammable hazards.
- Liaised with site operations staff, project managers and clients with regards to documentation and risk assessment preparation for bizSAFE certification.
- Advised project managers in accident reporting and investigations as well as toolbox meetings and all safety matters execution.
- Updated risk assessments in preparation for maintenance audits of ISO 45001 for clients.
- Developed Environmental Aspect Impact (EAI) register for client as part of the document preparation for ISO 14001 certification audit.
- Devised a business continuity plan, comprising of Business Impact Analysis (BIA) and a business recovery procedure in the event of a disruptive event.

**Safety, Health & Environment (SHE) Intern****Jul 2022 - Sep 2022**

Hewlett Packard, Singapore

- Collaborated with line managers and managers to coordinate the group SHE audit process and observed the performance evaluation of various SHE-based aspects, including competence assurance, emergency preparedness and response, permit to work etc. within the plant.
- Prepared and verified minutes reports as the meeting secretary in SHE committee meetings to ensure the accountability of the actions to be taken.
- Developed an onsite traffic safety management plan based on WSHC guidelines and company regulations to adopt a quick reference central document for both employees and top management.
- Gathered relevant SHE data encompassing non-conformities, process risk review, MOC, process safety etc. from line managers and managers for Sustainability Performance Indicators (SPI) reporting.
- Designed visual aids for TV notice and the plant's visitor management system to ensure 100% registration of all employees, contractors and visitors in the event of an emergency evacuation.

**Graduate Student Researcher****Nov 2019 - Jul 2022**

Melbourne University, Australia

- Investigated the impacts of proactive work culture on asset maintenance processes with the objective of developing a training program for approximately 10 maintenance workers at a specialist valve manufacturing firm to improve safety outcomes.
- Liaised with 2 industrial experts and a maintenance manager to assist in formulating a plan for asset maintenance at a specialist valve manufacturing firm with the requirement to reduce maintenance costs by 5%.
- Conducted a site visit and identified workplace safety risks relevant to vehicle controls, air quality and maintenance work.
- Conducted an evidence-based case study investigation on the ways the application of Resilience Engineering (RE) practice at the Dreamworld Theme Park, Australia, could enhance safety, presenting the recommendations to improve on 3 crucial RE indicators.
- Conducted a systematic literature review on 844 articles as a principal author in collaboration with 2 industrial experts cum professors.
- Identified the study gaps to address the influence of cultural factors on the way maintenance is performed for an enhanced safety outcome, thereby proposing RE as a solution.

**Casual Academic****Mar 2020 - Jun 2020**

Melbourne University, Australia

- Delivered academic support and collaborated with the unit assessor in developing course content for a cohort of 150+ undergraduate students of Bachelor of Biomedical Science degree.
- Mentored about 5 international students with language and cultural barriers to revamp academic commitment and performance.

- Conveyed constructive comments through assignment marking for 70+ students.
- Liaised with senior lecturers and the unit assessor to organize and ensure seamless conversion of face to face lecture content and delivery to distance learning for 150+ students.

#### **Undergraduate Researcher**

**May 2017 - Apr 2018**

Universiti Teknologi Malaysia

- Collaborated with 3 other students to develop and test a prototype of a smart headlamp for heavy vehicles operating in mountainous terrains and hairpin bends.
- Presented the prototype's functioning to a panel of 4 professors cum engineers to achieve an 80-89% project rating.
- Spearheaded a team of 4 other students on the development of an automated power theft detection device to accurately identify the presence of power theft and execute automated power shutdown without human intervention.

#### **VOLUNTEER EXPERIENCE**

##### **Student Representative - Postgraduate**

**May 2019 - Sep 2020**

**Melbourne University, Australia**

- Advocated the voices and grievances of 200+ postgraduate students from the Faculty of Science and Engineering in the university's academic board.
- Advised the chair and fellow members of a working party on addressing the challenges regarding the admission of international students.
- Influenced strategic decisions and changes such as the development of a student competency assessment program, enhanced mentor schemes, and revamping of orientation courses to overcome competency issues with newly admitted international students, resulting in a significant reduction of student failure rate.

##### **Student Volunteer Leader**

**Jul 2019 - Mar 2020**

Orientation and Induction Team, Melbourne University

- Volunteered to facilitate new students with FAQs and provided guidance to the right university support service.
- Engaged with the orientation and induction team on the recruitment of new student volunteers and briefing of the orientation processes.
- Motivated 50+ new students through orientation speech on the importance of overcoming cultural barriers and making full utilisation of the student services at the university.
- Educated 5 new student volunteers with formalities regarding induction training and clarified any relevant queries with the work, health and safety induction program.

#### **CERTIFICATIONS**

- Certified as QEHS Integrated Management System Internal Auditor (ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018) by TUV SUD.
- Certified to develop a Risk Management Implementation Plan (bizSAFE 2) by Workforce Singapore.
- Awarded the certificate of competence in Safety, Health and Environmental Practices by NUS.

#### **ADDITIONAL INFORMATION**

- Fluent in English, Chinese, and Malay (both spoken and written)
- Technical: Proficient in Microsoft Office Suite