

Chin Zheng Yang

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EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Aug 2015 – May 2019

Bachelor of Engineering (Honours), Mechanical Engineering (Energy and the Environment)

- First Class Honours (Highest Distinction)
- CGPA: 4.80/5.00
- Recipient of Dean's Lists Awards
- Recipient of NTU President Research Scholar

VŠB-TUO – TECHNICAL UNIVERSITY OF OSTRAVA

Sep 2017 – Jan 2018

Semester Exchange Program

- Achieved an overall grade of 90.7/100 which is equivalent to Honours (Highest Distinction)
- Immersed in the local culture and diversity, learned basic Czech Language

WORK EXPERIENCES

EXXONMOBIL Asia Pacific Pte. Ltd

Oct 2020 – Present

Inspection Analyst

- Crafted requirement gathering, planning and implementation of the daily transaction level inspection plan database
- Created end to end Python scripts to automate raw transaction data ingestion, cleaning, processing, and reporting using Tableau
- Led a team of 5 planners to create aggregated data sources to empower data analysis site wide
- Successfully implemented canned reports and interactive Tableau dashboards for KPI tracking, leading to a decrease in barrier hours by 20%, which increased overall departmental efficiency and productiveness
- Spearheaded an initiative to build a machine learning based prediction system to predict corrosion rate of insulated piping that achieved 91% accuracy

EXXONMOBIL Asia Pacific Pte. Ltd

Jul 2019 – Present

Fixed Equipment and Inspection Front Line Supervisor

- Led a team of 3 inspectors for efficient execution of fixed equipment/piping inspection programs
- Led business teams in ensuring mechanical integrity via the recommendation of several NDTs
- Planned, implemented, and followed plant inspection plan for the existing fixed equipment by identify the damages and determine the inspection effectiveness as per API code
- Involved in Root-Cause Failure Analysis for identified equipment bad actors
- Investigated equipment failure and provided cost-effective repair recommendations of inspection findings

SCHLUMBERGER

Jan 2018 – Jun 2018

Mechanical Engineer (Intern)

- Engaged and collaborated with the Manager and Senior Engineer in the digitization project
- Researched and applied reverse-engineering principles like 3D scanning technique to enable digitization of legacy components of Electrical Submersible Pump (ESP)
- Developed a new and effective protocol to perform digitization of legacy products which can be utilized by engineers in New Product Development department
- Investigated the quality of digitized products via carried out Computational Fluid Dynamics (CFD) analysis on a weekly basis using ANSYS Fluent
- Performed deviation analysis on 3D printed legacy parts with their corresponding CAD models through 3D imaging technique and presented analysis report to the manager

RELEVANT PROJECTS

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Jul 2018 – Apr 2019

FYP: Carotid Artery Thermography Image Processing with Data Management

- Create an algorithm to detect stenosis of carotid arteries using data acquired from hospital
- Implement and demonstrate the methodology using Python scripts and OpenCV package
- Successfully improve the accuracy of detection of stenosis by 75%

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Sep 2016 – May 2017

Undergraduate Research Program

- Conducted experiments to analyze and compare the time taken to decellularize porcine esophagus using different surfacing agents
- Evaluated effectiveness of the removal of nuclei in the decellularized porcine esophagus by conducting Hematoxylin and Eosin (H&E) staining
- Successfully develop a decellularization process by shortening time required by 50%

CERTIFICATIONS & ONLINE COURSES

Accomplished over 10 MOOC courses and accumulated over 100 hours learning on Statistics, Data Science, Database. Skilled in Python, Tableau and SQL.

- **Language/Database:** Python, SQL
- **Environment:** MATLAB, Jupyter Notebook, Spyder, Tableau
- **Data Visualization Package:** Pandas, Matplotlib, Seaborn
- **Certificates:** Tableau Desktop Specialist

REFERENCES

Dr. Cheah Kean Wee

Team Lead

Schlumberger, Singapore

Email No: KCheah@slb.com

Tel No: 9431 7813

Aloysius, Tay Kay Chong

Fixed Equipment & Inspection Second Line Supervisor

ExxonMobil, Singapore

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