

Tey Sui Zer

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Profile Summary

A geomatic engineer graduating in August 2022 seeks for good working opportunity with huge passion. I am a fast learning and dedicated person who aim to work in the geospatial and IT industry. My current goal is to achieve a higher career as much as possible in the related field to effectively acquire more advancing knowledge to enrich myself.

Education

B.Eng. in Geomatic Engineering with honours at University Technology of Malaysia

[September 2018 – July 2022](#)

Relevant modules included: Satellite Positioning, Photogrammetry, Remote Sensing, Hydrographic Surveying Technology, Geodesy, Underground Utility Mapping, Terrestrial Laser Scanning, Cadastre Survey Practice, Geographical Information System, Field Astronomy, Least Squares Estimation, Engineering Survey, Statistic for Surveyors, Computer Programming, Physics Theory for Surveyors, Cartography, Land Law and Survey Regulation, Geospatial Management & Implementation, Geospatial Data Analysis.

CGPA: 3.70. Received scholarship from JPA throughout the 4 years course of geomatic engineering.

Academic contents:

- Capability in GIS, remote sensing, and 3D point cloud model field.
Several courses related to ESRI ArcGIS Pro were conducted. Learnt many types of GIS data analysis concepts. Processed satellite images and 3D point cloud models using variety software.
- Underwent survey training camp I, II, III
Challenging tasks such as engineering survey, topographic survey, cadastral survey, GPS survey, aerial survey, and hydrographic survey are carried out throughout the training camps.
- Built simple applications using Python and libraries
PyQt5: Designed a clean and functional GUI with Qt Designer. Created a coordinate transformation module that can batch processing, converting data between geographical coordinates and 3 Dimensional coordinates.
Django: Simulated a web GIS application that shows OpenStreetMap with shapefiles on HTML using Folium. Additionally, used Selenium to web scraped Official McDonald's website to obtain data then import into MySQL to be used for placing markers on the web map.

Final Year Project: Geomatic Evaluation of Low Cost LiDAR Sensor Integrated on Apple Ipad Pro 2020 for Indoor Crime Mapping

This research project aims to expand new methodologies for acquiring 3D model data on crime scenes using tablets or smartphones with LiDAR sensor. Professional team visited laboratory room to provide assists and benchmark.

Malaysia Higher School Certificate (STPM) at Form 6 (Mod 2) SMK Johor Jaya 1, Johor Bahru

[May 2016 – November 2017](#)

Subjects included: General Paper, Chemistry, Physic and Mathematics (T)

Obtained pointer of 3.09. Malaysian University English Test (MUET) achieved Band 4, classified as good English user.

Malaysian Certificate of Education (SPM) at SMK Taman Pelangi Indah, Ulu Tiram

[January 2011 – December 2015](#)

A Malaysia national examination with 9 compulsory subjects + 1 optional subject, Chinese. Result of 8As was obtained.

Working experiences & Co-Curricular Activities

Working experiences:

Jurukur Khoo Sdn.Bhd.

Geomatics Trainee July 2021 - September 2021

- Carried out various demarcation and land title survey jobs.
- Involved in underground utility survey using Electromagnetic Pipe Locator
- Out stationed for hydrographic survey (magnetometer and multibeam)
- Post-processed UAV, hydro, stockpiles, 3D TLS point cloud data

Land Surveyor July 2019 - Sept 2019

- Involved in settlement monitoring for all luxury coastal bungalows located in reclamation area of Forest City project by Country Garden Holding Ltd.
- Involved in stockpiles survey for rocks, sand materials, etc. and post-processing of data acquired, computed the volumes.
- Carried out underground utility survey using Ground Penetrating Radar (GPR) for Shell petrol station.
- Carried out single beam hydrographic survey on sea near Forest City Iskandar Puteri Malaysia.

Magic Mapper Sdn.Bhd.

Technical Analyst Dec 2021 - Mac 2022

- Assisting in writing technical proposal for carrying out 3D laser scanning on historical buildings in Malaysia.
- Analysed and compiled data acquired from Ground Penetrating Radar (GPR) for utilities mapping.
- Produced underground utility topographical maps for proposed HDD cables requested by clients.

Geographer Analyst / Drafter July 2020 - Sept 2020

- Worked with various surveyors to be responsible in data collection, data entry, and data registration in different scenarios of sites.
- Worked as geographer analyst, carried out digitizing works, analysis of UAV and utilities topographic mapping. Familiar with Autodesk products and other surveying software.
- Produced plans of proposed telecommunication tower location and radio ranges.

Co-curricular activities:

Dart Club Vice President in Form 6 (Mod2) SMK Johor Jaya 2016-2017

- In charge of the dart competition events. Make sure program flows in order. Demonstrated good planning in time management throughout the activities.
- Participated in competitions up to district level. Earned runner up award.

Language

- English --- Expert
- Mandarin --- Expert
- Malay --- Expert

Certificates

- **Survey of Python in GIS applications**
Issued Apr 2021
Online course – Udemy
Credential ID: UC-4ade2c59-4228-4f1f-bde2-5b3584acaffe