

Bachelor in Surveying Science and Geomatics (Hons)
University Technology Mara (UiTM)

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PERSONAL DETAILS

Name : Muhammad Azwan Bin Aidil Azhar
NRIC : 921125-08-6415 Driving Licence : B2, D
Health : Excellent Nationality : Malaysian



Expected Salary : MYR 2000

EDUCATION BACKGROUND

2013 – 2017 : Bachelor in Surveying Science and
Geomatics (UiTM)
Final CGPA : 3.30 / 4.00
2010 – 2013 : Diploma in Civil Engineering (UiTM)
Final CGPA : 3.00 / 4.00

INSTRUMENTS EXPOSURE

- Topcon Theodolite, Total Station & Auto Level
- Topcon GPS GR-5
- Trimble GPS R4, R6, 5700 Geodetic, Handheld

SOFTWARE SKILLS

- ❑ **Autodesk Software (Basic) :**
Autocad, Autocad 3D, Revit, Inventor, Fusion 360
- ❑ **GPS High Precision Software :**
Gipsy-Oasis II version 6.0 (Linux Based Interface)
TEQC (Time Windowing Apps)
Topcon Tool & GDTS
- ❑ **Civil Engineering Software :** Esteem Structural Design Tool
- ❑ **Microsoft Office Tools :** Words, Excel, Powerpoint, Project

FINAL YEAR PROJECTS

Designing Structural Component for Double Storey House

- Calculation for determine shear force & bending moment value manually from existing structural plan
- Proposed designated structure through Esteem software guided by British Standard Euro Code 12

Estimating Cost for Constructing Double Storey House

- Estimation calculation via Bill Of Quantity (BQ) sheets for all elements involves in construction procedures

Reliability Of Observation Time On Precise Point Positioning

- Investigation towards time component factors that contribute in millimeter positioning approach through selected MyRTKnet stations entire Malaysia
- Analysing and justifying suitable observation period that can contribute to millimeter level accuracy at a minimal observation epoch
- The used of High Precision GPS software GIPSY-OASIS II as processing medium provided by Jet Propulsion Laboratory

GEOMATICS EXPERIENCES

GPS Observations (August 2016) (Butterworth)

- ❖ Established 6 GPS station for Geodetic Network distributed around Permatang Pauh to Permatang Pasir
- ❖ Single Baseline observation approach via static method
- ❖ Using maximum constraint post-processed technique by tie with 2 CORS station (USMP & SGPT)

Photogrammetric Survey (August 2016) (Butterworth)

- ❖ Establish 6 Ground Control Point (GCP) distributed for aerial photo coverage in Permatang Pasir
- ❖ Established 2 GCP over Conventional Survey approach
- ❖ Processing all GCP via Photomod software and verify points using handheld to justify processed positions

Engineering Survey (February 2016) (Pendang, Kedah)

- ❖ Detail Survey for mapping Pendang Lake Resort
- ❖ Established 3 CRM for horizontal & vertical control
- ❖ Traversing for horizontal & Leveling for vertical survey
- ❖ CDS as processing tool & Autocad as mapping tool

Hydrographic Survey (February 2016) (Sg Semeling, Kedah)

- ❖ Mapping Jetty Titi Sg Semeling via Conventional Survey for land & Single Beam Survey for depth measurement
- ❖ Beacon Bagan Datoh as the source of depth positioning
- ❖ HydroPro as navigation tools & Autocad as mapping
- ❖ Detail plan for land & Bathymetric plan for depth mapping

Strata Survey (August 2015) (Sri Iskandar, Perak)

- ❖ Produce Strata Plan for Uitm Sri Iskandar Hostels facility
- ❖ Used existing CRM for start survey datum and proved by solar observation
- ❖ Distometer used to measure facility dimensions
- ❖ CDS as processing tool & Autocad as mapping tool

Subdivision Survey (August 2015) (Lumut, Perak)

- ❖ Subdivision work for lot 306 Mukim 5 Beting Luas, Lumut
- ❖ Refixation integrity measured using Least Square Adjustment approach via Starnet software
- ❖ Proposed lot 306-001 and 306-002 for subdivided land

CIVIL ENGINEERING EXPERIENCES

Structural Site Visit (January 2013) (Kg Bagan Dalam, Butterworth)

- Acknowledging the social, cultural and environmental responsibilities as an civil engineer through the site visit
- Expressing concern towards ethics as an civil engineer from the site visit for sustainable development and green technology and management implementation

Highway Engineering Practical (June 2012) (Permatang Pauh)

- Carried out several practical studies contributed in highway engineering field such as Traffic Noise Study, Road Skid Resistance, Traffic Volume, Spot Speed Study, Space Speed Mean Study, Saturation flow Study & California Bearing Ratio

Geotechnical Engineering Practical (February 2012) (Permatang Pauh)

- Carried out several practical studies contributed in studying soil properties by implementing several testing such as Triaxial Test, Unconfined Compression Test, Compaction Test, Mackintosh Probe Test, Fineness Modulus using Sieve Machine

Geology Site Visit (February 2011) (Taman Negara Penang)

- Exposure towards the existing geological structure available in Taman Negara Penang

GEOMATICS INDUSTRIAL EXPERIENCES

Jabatan Ukur Dan Pemetaan Malaysia (JUPEM)

Wisma JUPEM Jalan Semarak,

50578 Kuala Lumpur.

Duration : 26th January – 27th February 2015

Job exposure :

Juru Ukur Daerah (JUD) unit

1) CRM establishment (Batu Muda, Gombak) (5 February 2015)

- Establish 3 CRM points for the purpose of marking reference mark outside proposed lot
- GPS observation carried out using RTKnet technique
- Observation recorded in toughbook & upload online to Jupem database server (CSRS)

2) CRM establishment (Bukit Mas, Genting Klang) (10 February 2015)

- Purpose of establishment for first alienation of land title in Bukit Mas forest reserve
- Walk through forest for 1.5km and arriving at the propose CRM points in 2 hours
- Used static method for 1.5 hours for 2 CRM points

3) e-TSM Fieldwork (Pekan Kampung Baru, Sungai Buloh) (13 February 2015)

- Resurvey of land lot for renew expired land title
- carried out solar observation for NDCDB mark before survey started
- Establish traverse measurement using F2F method & pick up available boundary marks



EXTRA CURRICULAR ACTIVITIES

CATEGORIES	ACTIVITIES	POSITION	ACHIEVEMENT
Leadership & Management	Faculty	Participant	Geomatic Exploration day involved form 3 students from SMK Arau towards exposing geomatic fields for school students
	Department of Prime Minister (Biro Tatanegara)	Participant	Attended "Program Latihan Transformasi 1 Malaysia Mahasiswa UiTM Perlis". Activities involved towards developing & increasing leadership skills and managing teamwork efficiently
	Faculty	Facilitator	Involved in the "Program Motivasi & Geografi Bersama UiTM Perlis" held in SMK Pendang, Kedah to expose students in geomatic field
	Dinner Faculty	Receptionist & Guests Management	Participated & managing in Geomatic Faculty dinner event for all involved lectures and students in UiTM Arau.

REFERENCE PERSON

Sr Dr Muhammad Azwan bin Abbas Head of Geomatics Faculty, UiTM Arau, Perlis. Tel : 019-470 5136 azwanabbas@yahoo.com	Sr Mohamad Asrul Bin Mustafar Lecturer & FYP Supervisor UiTM Arau, Perlis Tel : 019-558 5275 mohamadasrul@gmail.com	Sr Sazali Bin Mahmud Lecturer & Student's Advisor UiTM Arau, Perlis Tel : 019-385 2233
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