

CURICULUM VITAE



A. PERSONAL DETAILS

1. Name : Ir. Ts. Noorfaizah Hamzah
2. Date of Birth : 04.11.1983 Place: Kuala Kangsar, Perak
3. Sex : Female
4. Office Address : Faculty of Civil Engineering, University Teknologi MARA,
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B. BRIEF PERSONAL HISTORY

Noorfaizah Hamzah obtained her diploma and Bachelor's degree in Civil Engineering from Universiti Teknologi MARA (UiTM), Malaysia in 2004 and 2007 respectively. In 2008, she received a Master's degree in Civil Engineering (Geotechniques) from Universiti Teknologi MARA (UiTM), Malaysia. She has been serving UiTM since July 2008 as a lecturer and as senior lecturer since August 2016 at the Faculty of Civil Engineering. Her research interest includes geotechniques, rock engineering, progressive damage mechanism, engineering geology and earth retaining structures.

C. **ACADEMIC QUALIFICATION**

No.	Name of Institution	Degree/Qualification	Date awarded
1.	Universiti Teknologi MARA, Malaysia	MSc in Civil Engineering (Geotechniques)	2008
2.	Universiti Teknologi MARA, Malaysia	Bachelor of Engineering (Hons.) Civil	2007
3.	Universiti Teknologi MARA, Malaysia	Diploma in Civil Engineering	2004

D. **HONORS AND AWARDS**

- **Dean's List**
October 2001 - Semester 01-06 (Diploma)
October 2004, March 2005, October 2006 - Semester 01-05 (Bachelor)
- **Anugerah Perkhidmatan Cemerlang** UiTM 2009
- **Best Paper Award (Bronze)** at ASEAN Conference on Scientific and Social Science Research (ACSSSR 2011), Research and Industry Linkage Centers of UiTM Perlis, Kedah, Perak and Penang, at Gurney Hotel, Pulau Pinang - Evaluation of Dynamic Properties for Interbedded Sandstone and Shale with Rock Mass Dynamic Testing (RMDT) Device (22 – 23 June 2011)
- Appreciation as a **supervisor** for MSSA/CIDB Open Ideas competition "Reimagine: MRT Stations (ReMS) 2018"
- **Anugerah Staf Contoh 2018 Geotren**, Malam Gala, Fakulti kejururteraan Awam, UiTM

E. **COMPUTER KNOWLEDGE**

- Computer Application (MS Office, Structural design software "Esteem", Geotechnical design software "Geostudio – Slope W", Geotechnical design software "MIDAS" and Plaxis)

F. **LANGUAGE PROFICIENCY**

- **English and Bahasa Malaysia**, Fluent in both written and oral
- **German (Deutsch)**, Basic level in both written and oral

G. **PROFESSIONAL / INDUSTRIAL TRAINING**

- **Ranhill Bersekutu Sdn Bhd, Kuala Lumpur (1 July 2010 – 31 August 2011)**

The projects involved:

1. Projek Pembangunan Wilayah Ekonomi Pantai Timur (ECER) Jalan Persekutuan Laluan 8 & 9 "Central Spine Road" Pakel 2 : Jambatan Sg Lakit ke Gua Musang Kelantan.

- Site investigation planning design
- Prepare the Bill of Quantities (BQ) and Scope of Work
- Site investigation progress
- Slope stability check
- Attend project meeting with JKR on the SI Supervision Works
- Site visit 1) to conduct site reconnaissance and confirm the feasibility study of the project area 2) to check on the overall site conditions and constraints during SI Works
- Soil nailing design
- Settlement analysis summary

2. The proposed construction and completion of Infrastructure works for Medini, Iskandar Malaysia, Nusajaya, Johor Darul Takzim.

- Design retaining wall
- Slope stability check
- Pipe capacity check
- RC Pile Detail drawing check
- Bearing capacity check
- Plate Load (Bearing) Test check
- Design rubble wall retaining wall
- Produce slope stability assessment report
- Slope stability check of proposed RE Wall by Nehemiah
- Site visit on slope failure along Road A4a (Infra 1)
- Produce slope failure report
- Proposed Plate Bearing Test (PBT) and bearing check
- Prepare Pumping Test specification
- Plate Load Test analysis
- Prepare Brief Report on bearing capacity calculation at Marine Outfall
- Settlement analysis from Maintain Load Test (MLT) results
- Proposed ground treatment – removed and replaced (R&R) method

3. The proposed development of Langat 2 Water Treatment Plant and Water Reticulation System In Selangor/ WP Kuala Lumpur

- Design retaining wall
- Prepare the Bill of Quantities (BQ)
- Prepare Tender document report

4. The Proposed Preliminary Soil Investigation Works At Negeri Sembilan Vision City, Labu, Negeri Sembilan Darul Khusus

- Prepare Tender Evaluation Report
- Attend site meeting with Client, Sime Darby Property Berhad
- Site visit to witness the SI Works by the Contractor

5. Cadangan Intergrasi Stesen LRT Masjid Jamek Aliran Kelana Jaya dan Aliran Ampang untuk Syarikat Prasarana Negara Berhad

- Site visit on site conditions check and constraints during construction
- Site visit on the installation of EPS

6. The Proposed of Permanent Low Cost Carrier Terminal (PLCCT) at KLIA 2 Sepang

- Site visit on Pile Dynamic Analysis (PDA) Test
- Settlement check using Asoaka Plot

7. The proposed of Sludge Storage Yard Semangar Water Treatment Plant, Kota Tinggi, Johor.

- Slope stability check
- Standpipe piezometer analysis
- Meeting with Contractor of ground improvement technique, KELLAR

8. The Design, Construct and Handover 10,680 Units of Residential Apartments, Including Consultancy Services for The Masterplanning and Design of Facilities Buildings, Common and Local Infrastructure Works and Services at Tajura.

- Water level check
- Slope stability check
- Bearing capacity check
- Settlement analysis
- Footing design for Maintenance Office
- Design combined footing

9. The Proposed Development of Nilai Impian & Nilai Utama, Mukim Setul, Daerah Seremban, Negeri Sembilan Darul Khusus

- Design retaining wall
- Site visit to slope failures at Nilai Impian area
- Produce slope failure report
- Prepare geotechnical report for proposed earthwork at Zone 5 and 4B
- Prepare geotechnical report for proposed earthwork at Zone 2 and Part of Zone 1
- Concrete mix design check
- Attend site meeting with Developer and Contractor
- Prepare retaining wall calculation report

10. Construction of New Besut Barrage and Associated Works

- Slope stability check

11. The Design of 20,000 Units of Residential Apartments, Including Consultancy Services for The Masterplanning and Design of Common and Local Infrastructure Works and Services at Ganfouda, Benghazi, Libya.

- Produce geotechnical report
- Slope stability check
- Underground / buried detention chamber / soakaway design

12. Seri Alam Proposed Revise Layout Plan (RLP 2010)

- Contour of rock and hard materials check

13. The Proposed Saddle Support For MS Water Pipe Crossing Over Sg. Chemaran

- Prepare the pile design
- Check on footing design

14. The Proposed of Ampang – Pandan – Cheras Elevated Highway (AMPAC)

- Prepare geotechnical assessment

15. Cadangan Pembangunan Komprehensif Meliputi Kompleks Pejabat Di Atas Lot 2960, 6894, 6895 & 6896 Jalan Segget, Johor Bharu.

- Apply to Majlis Bandaraya Johor Bharu (MBJB) for anchorage usage approval
- Prepare anchorage and foundation design drawings
- Diaphragm Wall construction design

16. Senai Desaru Expressway

- Settlement analysis
- Determine correlation between Dynamic Cone Penetration Test (DCPT), California Bearing Ratio (CBR) Test and Mackintosh Probe (MP) results
- Slope stability check
- Prepare Brief Report on slope stability analysis

17. Cadangan membina dan Menyiapkan Pintu Kawalan Pasang Surut T19-Z di Jajaran Perparitan – Z kerja lain yang berkaitan Daerah Hilir Perak, Perak Darul Ridzuan.

- Pile capacity design.
- Pile raft design.

18. Cadangan Pembangunan Puncak Bestari Di Atas Lot PT 10661, Bnadar Puncak Alam, Mukim Ijok, Daerah Kuala Selangor, Selangor Darul Ehsan Untuk Tetuan Worldwide Holdings Berhad.

- Pad footing design

19. Proposed Demolition and Construction of 1 Block 64 Storey Building on Lot 149, Section 58, Jalan Ampang, Kuala Lumpur for MESSRS: Aurora Tower At KLCC Sdn Bhd

- Design pile cap as beam design

20. Cadangan Pembangunan Kinrara Estate Di Atas Lot 3197, 3198 & 1804, Mukim Petaling, Selangor Untuk Tetuan Perumahan Kinrara Bhd

- Site visit and meeting with Client
- Slope stability check

21. The proposal of the Design, Fabrication, Supply, Delivery, Erection, Installation, Testing, Commissioning, and Guarantee for

Twelve (12) Months of a 60MT/HR Palm Oil Mill Ladang Raja UDAND, Puda, Sarawak.

- Pile capacity design

22. Kuala Lumpur City Centre (KLCC) Commercial Development – Proposed Detailed Soil Investigation Works At Lot 185, 167 And Extended Car Park

- SI results analysis
- Site visit for tender meeting with Contractors
- Assist and prepare figures for geotechnical report
- Slope stability analysis

H. PROFESSIONAL BODIES INVOLVEMENT

1. Registered as Graduate Engineer (Civil), Board of Engineers Malaysia (BEM), Malaysia (No: 54422A) – Since 2008
2. **Member** of The Institute of Engineers Malaysia (IEM), Malaysia (M 27020) (CIVIL) – Since 2018
3. Professional Engineer (Civil), Board of Engineers Malaysia (BEM), Malaysia (No: 19534) - Since 2018
4. Professional Technologist, Malaysia Board of Technologists (MBOT) - Since 2018

I. ACADEMIC ACTIVITIES

**Lecturer/Senior lecturer in Universiti Teknologi MARA (UiTM)
(1 July 2008 – present)**

Courses thought:

- ECG 533 – Rock Engineering
- ECG 523 – Foundation Engineering
- ECG 553/433 – Geotechniques
- ECG 403/417– Engineering Geology
- ECG 428/423 – Geotechnical Laboratory
- ECG 426 – Soil Mechanics
- ECM 411 – Engineering Drawing & Appreciation
- ECM 442 – Civil Engineering Quantities & Estimation

J. RESEARCH EXPERIENCES

1. **Master Dissertation – Strain-dependent Behaviour of Interbedded Sandstone and Shale Rock Mass Using Rock Mass Dynamic Testing (RMDT)**, January 2008 – June 2008 at Korea Advanced Institute of Science and Technology (KAIST), South Korea
2. **Research Project: Dana Kecemerlangan Research Grant – Engineering Characterization Of Weathered Rock By P-Waves and S-Waves Methods For Geotechnical Design**, 15 Mac 2009 – 15 Mac 2010, Research Management Institute (RMI) Universiti Teknologi MARA
3. **Research Project: Fundamental Research Grant Scheme (FRGS) – Mathematical Model of Particle Elastic Wave Propagation and Attenuation Mechanism for Geomaterials**, Mac 2010 – Mac 2012, Department of Higher Education, Malaysia.
4. **Hamzah N.**, Mohamed Z., Nordin M. M. M. (2011). Evaluation of Dynamic Properties for Interbedded Sandstone and Shale with Rock Mass Dynamic Testing (RMDT) Device. Proceeding ASEAN Conference on Scientific and Social Science Research (ACSSSR) 2011, Page 192.
5. **PhD Studies – Progressive Damage Mechanism of Rock Subjected to Cyclic Loading**, March 2013 until present, University of Adelaide, Australia
6. A. Taheri, **N. Hamzah** and Q. Dai, (2017), Degradation and improvement of mechanical properties of rock under triaxial compressive cyclic loading, Japanese Geotechnical Society Special Publication, International Mini Symposium Chubu (71-78)
7. Nur 'Ain Mat Yusof and **Noorfaizah Hamzah**, A Study on Behaviour of Soil Bonding State Using Wave Propagation Method (2018), Chapter in Book Regional Conference on Science, Technology and Social Sciences RCSTSS 2016 - Theoretical and Applied Sciences
8. Ir. Mah Siew Kien, **Puan Noorfaizah binti Hamzah**, article "**Step Right Up for a STEM Experience**" of Forum for the April 2018 Issue of JURUTERA Bulletin, IEM (30-31)
9. **Noorfaizah Hamzah**, Nur 'Ain Mat Yusof and Muhammad Ihsan Haziq Moahd Rahimi (2019). Assessment of Compressive Strength of Peat Soil with Sawdust and Rice Husk Ash (RHA) with Hydrated Lime as Additive. In MATEC Web of Conferences 258, (Vol. 01014).
10. Mansor, H., Hamid, Y. S., Suliman, N. H., Ahmad, N., & **Hamzah, N.** (2019). Evacuation egress in high rise building: Review of the current design evacuation solution. In MATEC Web of Conferences 258 (Vol. 03012).