



# ZWE KHANT LWIN

## Geotechnical Engineer

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Ramkhamhaeng 50, Bang Kapi, District, Bangkok

## SUMMARY

Accomplished Geotechnical Engineer with over 5 years of proven expertise in site investigations, soil testing, and foundation design for diverse construction projects. Adept at delivering innovative, practical solutions to complex engineering challenges, backed by a Master's and Bachelor's degree in Engineering Geology. Demonstrated ability to optimize ground improvement techniques, ensure project quality, and manage comprehensive technical reporting. Dedicated to driving excellence and technical advancement within dynamic engineering teams.

## KEY ACHIEVEMENTS

### 💎 Data Management Efficiency

Managed and analyzed geotechnical data for over [20] projects, streamlining reporting.

### 💎 Quality Assurance

Supervised laboratory soil testing for over 10 projects, ensuring 99% accuracy rate.

### 💎 Site Leadership

Led site geotechnical investigations for over [5] projects.

## CERTIFICATION

M.G.S (Engineering geology) – Myanmar Geosciences Society

Certificate in Auto CAD Intermediate Course for 2D, 3D, Isometric, Dimension & Printing

Transformational Leadership Journey

## LANGUAGES

English Advanced ●●●●●

Myanmar Advanced ●●●●●

## EXPERIENCE

### Geotechnical Engineer

10/2018 - 03/2020

#### Energy World Co.,Ltd

Yangon, Myanmar

#### Responsibilities

- Geotechnical Investigation for Myogyi Multipurpose Dam Project, Myanmar, 2018 MSc Thesis
- Pressure meter Test for Agriculture Income Improvement Project in Sagaing District, Client-Department of Rural Road Development 2019
- Shwe Bone Pwint Pagoda Grouting Project in Taung Gyi Township (2019)
- Site & Geotechnical investigation works for various projects
- Supervised for Standard Penetration Test, Dynamic Cone Penetration Test, Sand Cone test and Pressure Meter test (Menard)
- Recorded Field Bore Logs, N value and Ground Water level
- Performing Physical Properties and Mechanical Properties for Soil & Rock
- Drawing the Soil Profile and Bore Logs by using AutoCAD Software
- Collected and analyzed physical and mechanical properties on soil and rock samples, enhancing design accuracy for many projects
- Prepared detailed geotechnical reports with foundation recommendations for major infrastructure projects

### QC Engineer

04/2020 - 04/2024

#### Tokyu Construction Co.,Ltd

Yangon, Myanmar

#### Responsibilities

- Responsible for Field Density Test (Sand Cone Test and Electrical Density Gauge)
- Responsible for Plate Load and Falling Weight Deflectometer
- Analyzed and Tested samples in the Laboratory for Moisture Content, Specific Gravity, Atterberg's Limit, Particles Size Analysis Test, Compaction Test, CBR Test
- Tested Coarse and Fine Aggregate (Grading, Specific Gravity and Absorption, Abrasion, Sand Equivalent, Clay Lump and Friable Particle Test etc.)
- Liaise with site Engineers and Sub-contractors to ensure that all site soil testing activities are performed as per schedule
- Conducting site geotechnical investigative work to analyze the condition of embankment and to determine the appropriate location for testing requirements
- Ensure all quality inspection, field and laboratory test reports are captured and maintained
- Responsible for organizing and managing the Laboratory activities
- Assist QC Chief and Laboratory Chief in drafting/Formatting Quality Control forms and other Laboratory documents
- Able to supervise workers and labours force

### Assistant Surveyor

10/2024 - 04/2025

#### KMIT Construction Co.,Ltd

Thailand

#### Responsibilities

- Perform accurate levelling and marking for walls, doors, and tile lines based on construction plans
- Improved alignment accuracy by {15%} by setting out {50} construction points for structural elements
- Take measurements using surveying tools and maintain accurate data records
- Support senior surveyors in site inspections and surveying activities

SKILLS

Geotechnical Investigation · Data Analysis ·  
Site Investigation · Soil & Rock Mechanic ·  
Laboratory Testing · Foundation Design ·  
Problem Solving · Time Management ·  
Fast Learner · AutoCAD · Adobe Photoshop

PROJECTS

Yangon-Mandalay Railway  
Improvement Project Phase I  
04/2020 - 05/2024 Myanmar

Shwe Bone Pwint Pagoda Grouting  
Project  
Myanmar

Pressure meter Test for Agriculture  
Income Improvement Project  
Myanmar

EXPERIENCE

Geotechnical Engineer (Remote) 12/2020 - Present  
Singapore-based Geotechnical Engineer Company Singapore

Responsibilities

- Input and organize geotechnical field data (e.g., Standard Penetration Test [SPT] results) into structured Excel spreadsheets for analysis and reporting
- Record and manage instrumentation monitoring data (such as piezometers, inclinometers, or settlement markers) in Excel to support site performance evaluation

EDUCATION

BS.c Hons 2011 - 2016  
Yadanabon University Mandalay, Myanmar

- Geology

MS.c (Engineering Geology) 2016 - 2018  
University Of Yangon Yangon, Myanmar

- Engineering Geology

REFERENCES

Mr.Toru NAGAI (QA/QCManager ) Mr. Donald (QC Chief )  
nagai@tokyucnst-mmr.com donald@tokyucnst-mmr.com

PROJECT PHOTOS



SPT for Swimming Pool Project



Grouting for Shwe Bone Pwint Pagoda Project



FDT for Railway Improvement Project



Compaction Test for Sub-ballast



Abrasion Test for Sub-ballast



FDT for Railway Improvement Project