

Sherly Meiwa, ST., MT

Geotechnical Engineer & Lecturer

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PROFESSIONAL SUMMARY

Geotechnical Engineer with Ahli Geoteknik Madya (G1) certification. Specializing in soil-structure interaction, foundation design, and geotechnical analysis.

PROFESSIONAL EXPERIENCE

Senior Geotechnical Engineer – Analysis Specialist

Jan 2024 - Present

PT Sinomine Exploration and Surveying Technology Indonesia, Indonesia

Perform detailed geotechnical analysis and interpretation of subsurface conditions using integrated field investigation and laboratory testing data for port, mining, and smelter projects.

- Develop and execute numerical modeling in PLAXIS for settlement, slope stability, consolidation, and soil–structure interaction
- Deliver analytical geotechnical assessment and technical recommendations focusing on soil behavior, deformation, and stability
- Evaluate ground response and foundation behavior for complex project sites
- Conduct geotechnical risk evaluation for port, mining, and smelter projects

Geotechnical Expert

Jan 2023 - Dec 2025

PT Meta Bumi Systema, Indonesia

Geotechnical expert analyzing field and laboratory soil investigation results for various construction projects across Indonesia.

- Analyzed soil investigation results for hospital projects in West Java
- Conducted geotechnical analysis for infrastructure projects including bridges and office buildings
- Performed soil investigation for industrial facilities including Pertamina tank projects

Geotechnical Engineer

Jan 2019 - Dec 2022

PT LAPI ITB, Indonesia

Geotechnical Engineer performing design and analysis for various projects including mining construction and infrastructure development.

- Performing geotechnical design and analysis for various projects
- Conducting soil investigation and foundation design
- Providing expert consultation on geotechnical engineering

Lecturer

Jan 2019 - Dec 2021

Universitas Komputer Indonesia (UNIKOM), Bandung, Indonesia

Teaching geotechnical courses in Civil Engineering department, sharing industry experience with students.

- Teaching geotechnical engineering courses
- Developing curriculum for civil engineering program
- Mentoring students in geotechnical design projects

Team Leader & Geotechnical Expert

Jan 2021 - Dec 2024

PT BAHARI JAYA SEJAHTERA, Indonesia

Led detailed engineering design for port infrastructure projects in Papua and Maluku provinces.

- Team Leader for Detailed Engineering Design of Depapre Port, Papua Province (2022-2024)
- Team Leader for Detailed Engineering Design of Lerokis Port, Maluku Province (2021-2022)
- Provided geotechnical expertise for port infrastructure projects

Geotechnical Engineer

Jan 2019 - Jan 2021

PT LAPI ITB, Bandung, Indonesia

Geotechnical Engineer performing design and analysis for various projects including mining construction.

- Performed design and analysis for mining construction projects
- Conducted geotechnical investigations and analysis
- Developed foundation design recommendations

Head of Soil Mechanics Laboratory

Jan 2017 - Jan 2019

PT ZIFA ENGINEERING, Indonesia

Responsible for supervision, inspection, and soil mechanics test results in the laboratory.

- Led laboratory operations and testing procedures
- Supervised soil mechanics testing and quality control
- Managed laboratory team and ensured test accuracy

EDUCATION

Master of Engineering in Civil Engineering - Geotechnical Engineering

Aug 2015 - Dec 2018

Institut Teknologi Bandung (ITB), Bandung, Indonesia

GPA: 3.25/4

- Thesis on soil-structure interaction in piled raft foundation systems under dynamic loads
- Conducted advanced research in geotechnical engineering

Bachelor of Engineering in Civil Engineering

Aug 2010 - Jul 2015

Institut Teknologi Nasional (ITENAS), Bandung, Indonesia

GPA: 3.54/4

- Final thesis on soil improvement methods using Vertical drain (PWD)
- Graduated with good academic standing

CERTIFICATIONS

Ahli Geoteknik Madya (G1)

HATTI (Indonesian Soil Engineering Association) - LPJK | Jan 2018 - Jan 2028

TECHNICAL SKILLS

Geotechnical Engineering: Pile Design, PLAXIS 2D, Dynamic Analysis, ABAQUS 3D

• **Pile Design**

- 6+ years** | Piled Raft, Deep Foundation, Bored Piles, Driven Piles
- Expert in pile foundation design and analysis
 - Designed piled raft foundation systems for dynamic loads
 - Extensive experience in deep foundation engineering

• **PLAXIS 2D**

- 6+ years** | Finite Element Method, Soil Modeling, Deformation Analysis
- Advanced proficiency in PLAXIS 2D for geotechnical analysis
 - Conducting deformation and stability analysis
 - Modeling complex soil-structure interactions

• **Dynamic Analysis**

- 5+ years** | Dynamic Loading, Soil-Structure Interaction, Seismic Analysis
- Specialized in dynamic analysis of foundation systems
 - Research experience in soil-structure interaction under dynamic loads
 - Analysis of structures subjected to dynamic forces

• **ABAQUS 3D**

- 4+ years** | 3D Finite Element, Advanced Modeling, Nonlinear Analysis
- Proficient in 3D modeling using ABAQUS
 - Advanced finite element analysis capabilities
 - Nonlinear analysis of geotechnical problems

Laboratory & Testing: Laboratory Testing

- Laboratory Testing**

- 7+ years** | Soil Mechanics, Triaxial Test, Consolidation Test, Direct Shear
 - Expert in soil mechanics laboratory testing
 - Former Head of Soil Mechanics Laboratory
 - Supervision and quality control of test results

Infrastructure Design: Port Infrastructure, Soil Improvement

- Port Infrastructure**

- 3+ years** | Port Design, Marine Geotechnics, Coastal Engineering
 - Team Leader for Depapre Port detailed engineering design
 - Team Leader for Lerokis Port detailed engineering design
 - Geotechnical expert for port infrastructure projects

- Soil Improvement**

- 6+ years** | Vertical Drain (PWD), Ground Improvement, Soft Soil Treatment
 - Thesis research on soil improvement using PVD
 - Experience in soft soil treatment methods
 - Design and implementation of ground improvement solutions

Professional Skills: Project Leadership, Teaching & Training, Certified Professional

- Project Leadership**

- 4+ years** | Team Management, Project Coordination, Technical Leadership
 - Led detailed engineering design teams for major port projects
 - Coordinated multidisciplinary engineering teams
 - Managed project deliverables and timelines

- Teaching & Training**

- 3+ years** | Curriculum Development, Lecturing, Mentoring
 - Lectured geotechnical courses at UNIKOM
 - Developed curriculum for civil engineering program
 - Mentored students in geotechnical design projects

- Certified Professional**

- 7+ years** | HATTI Certification, LPJK Accreditation, G1 Level
 - Ahli Geoteknik Madya (G1) certified by HATTI/LPJK
 - Professional certification issued and renewed in 2018 and 2024
 - Recognized intermediate-level geotechnical engineering expertise

PROJECTS

Detailed Engineering Design of Depapre Port

Complete detailed engineering design for port infrastructure in Papua Province.

Expertise: Geotechnical Design, Port Engineering, Foundation Design

Detailed Engineering Design of Lerokis Port

Complete detailed engineering design for port infrastructure in Maluku Province.

Expertise: Geotechnical Design, Port Engineering, Foundation Design

Soil Investigation Study in Sermayam District, Merauke

Geotechnical analysis for soil investigation study in Sermayam District, Merauke.

Expertise: Soil Investigation, Geotechnical Analysis

RED MUD AREA Phase II Alumina Feasibility Study

Geotechnical survey for Red Mud Area Phase II Alumina Feasibility Study.

Expertise: Geotechnical Analysis, Feasibility Study

SMELTER AREA Phase II Alumina Feasibility Study

Geotechnical survey for Smelter Area Phase II Alumina Feasibility Study.

Expertise: Geotechnical Analysis, Feasibility Study

Permeability Study - Way Sekampung Dam, Pringsewu, Lampung

Permeability study for Way Sekampung Dam project in Pringsewu, Lampung.

Expertise: Permeability Testing, Soil Analysis

Soil Investigation - Rumah Sakin Hasna Medika, Majalengka

Soil investigation for hospital construction project in Majalengka, West Java.

Expertise: Soil Investigation, Foundation Design

Soil Investigation - Cable Route Project, Cirebon

Soil investigation for cable route infrastructure project in Cirebon.

Expertise: Soil Investigation, Soil Analysis

Soil Investigation - PT ILK Campus Complex, Karawang

Soil investigation for campus complex development project in Karawang.

Expertise: Soil Investigation, Foundation Design

Soil Investigation - SARPRAS HIDRO OSEANOGRAFI, North Jakarta

Soil investigation for education and training facility development in North Jakarta.

Expertise: Soil Investigation, Foundation Design

Soil Investigation - Pertamina Tank, Cirebon

Soil investigation for Pertamina tank facility in Cirebon.

Expertise: Soil Investigation, Foundation Design

Soil Investigation - Pedestrian Bridge, Menteng, Jakarta

Soil investigation for pedestrian bridge construction in Menteng, Central Jakarta.

Expertise: Soil Investigation, Soil Analysis

Soil Investigation - Inspectorate General Office, South Jakarta

Soil investigation for government office building in Kalibata, South Jakarta.

Expertise: Soil Investigation, Foundation Design

TRAINING & SPEAKING ENGAGEMENTS

Sertifikasi BNSP+LPJK Teknisi Geoteknik Jenjang 6

BNSP+LPJK

Jan 2023