

EDUCATION

University of Michigan, Ann Arbor **United States**
Master of Science in Engineering (MSE) in Civil Engineering (Geotechnical) - Class of 2024

- **Cumulative GPA: 4.00 (18 credits completed out of 30 credits)**

Institut Teknologi Bandung **Indonesia**
Bachelor of Science in Civil Engineering, concentrating in Geotechnical Engineering *07/2015*

- Bachelor Thesis Title: Basement Stability Analysis and Diaphragm Wall Design with Ground Anchor as Strengthening for High Rise Buildings in Jakarta using PLAXIS and PY-Wall
- **GPA: 3.50/4.00**

EXPERIENCE

The Ministry of Public Works and Housing, **Jakarta, Indonesia**
Directorate General of Highway

Roads and Bridges Engineer for Region II, Directorate of Road Construction *07/2020 – 08/2022*

- Evaluated and monitor the advancement of federal road construction, technically and administratively, across Jawa, Bali, and Nusa Tenggara Region, Indonesia.

Project Implementation Unit for The Development of Trans South-South Java Road Project funded by Loan from Islamic Development Bank Loan & Asian Development Bank *09/2020 – 07/2022*

- Supervised the implementation of all the procurement regarding the construction of South Java Lane, from tender until the execution on the field

Geotechnical Engineer, Directorate of Road Construction *02/2018 - 06/2020*

- Assisted geotechnical design and slope management in constructing roads and bridges throughout Indonesia.
- Aided in developing mitigation management for earthquakes, faults, and landslides related to roads and bridges construction across Indonesia.
- Fostered the development and application of geotechnical technology related to roads and bridges design and construction across Indonesia.

PT. Adhi Karya (Persero), Tbk. **Jakarta, Indonesia**

Project Control Manager, The Construction of Kemayoran Athletes Village *06/2016 - 01/2018*

- Established the construction method for Kemayoran Athletes Village Blok D10-1, built on 10 hectares land, responsible for delivering 1,546 apartments in 2 towers in response to the 2018 Asian Games & 2018 Asian Para Games housing needs.
 - Acted as a project control manager by directing a USD 47.2 Mio Project Cost Plan within the desired timeline in 18 months.
 - Supervised quality control, quantity engineer, and scheduler to achieve best standard of the project.

PT. Alam Sutera Realty, Tbk. **Tangerang, Indonesia**

Project Management Officer *09/2015 - 05/2016*

- Prepared the project management standards to establish the Suvarna Sutra, a 2600 ha premium residential and modern commercial complex. Particularly for Residential Main and Artery Road Construction.
 - Gathered project data and production information for management review.
 - Organized the inspectors on assuring the standards of the project, such as quality and time.

Institut Teknologi Bandung **Bandung, Indonesia**

Soil Mechanics Laboratory Assistant *01 - 05/2015*

- Conducting research and lab testing about Soil Properties, Soil Gradation, Atterberg Limit, Consolidation, Permeability of Soil, Compaction, CBR, Triaxial, Cone Penetration Test

Irrigation and Drainage System Teaching Assistant *08 - 12/2014*

- Responsible for preparing tutoring materials, leading tutorial classes for 40 second-year Civil Engineering students, and facilitating teaching and learning activities in Irrigation and Drainage System Coursework.

KEY PROJECTS

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- Review Design of Brumbun – Pantai Sine Road Construction** *04-05/2022*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Brumbun – P. Sine section. The proposed project is worth USD 22 Mio and will connect the Java Southern Cross Line through 13,4 km in East Java Province.
- Review Design of Kretek - Girijati Road Construction** *03-04/2022*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Kretek - Girijati section. The proposed project is worth Rp 261B and will connect the Java Southern Cross Line through 5,64 km in Yogyakarta Province. We faced the challenge of debris soil characterization, therefore 40% of the budget will be spent to build soil reinforcement to support the roads.
- Directorate General of Highway Young Engineer Supervision Program**
- Construction of Belanti Food Estate Access Road in Central Kalimantan** *01-03/2022*
- Supervised the construction process, which consists of cut-and-fill construction, wooden mini piles construction, soil compaction, and base aggregate layer construction.
 - Evaluated the construction process, including the construction method, production capacity, construction safety, and various problems faced in the field.
 - Published daily, weekly, and monthly report of the supervision and evaluation to increase effectivity and the efficiency of the construction process.
- Review Design of Lombok International Airport - Mandalika Road Construction** *09 - 12/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of road construction on the Lombok International Airport to Mandalika International Street Circuit section. The proposed project is worth USD 15 Mio and will become the critical connectivity infrastructure for the MotoGP Mandalika Event held at West Nusa Tenggara in 2022.
- Review Design of P. Sine – Blitar Road Construction** *05/2021 - 08/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the P. Sine – Blitar section. The proposed project is worth USD 39 Mio and will connect the Java Southern Cross Line through 14 km in East Java Province.
- Review Design of Prigi – Tulungagung – Klatak – Brumbun Road Construction** *03 - 05/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Prigi – Tulungagung – Klatak – Brumbun section in the construction phase. The review design was occurred due to the change of road trail on the field. The proposed project is worth USD 414 Mio and will connect the Java Southern Cross Line through 18 km in East Java Province.
- Review Design of The Paseban 1 Bridge in East Java** *03/2021 - 05/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of Paseban 1 Bridge. The bridge's construction takes place because of the collapse of the previous Paseban Bridge. The proposed project is worth USD 3.6 Mio.
- Review Design of Singaraja - Mengwitani Road Geometric Improvement** *02/2021 - 04/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Singaraja – Mengwitani section that the region office proposed. The proposed project is worth USD 10 Mio and will improve the geometric road at the length of 2,165 km on the strategic road in Bali.
- Review Design of Tepus – Jerukwudel Road Construction** *01/2021 - 02/2021*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Tepus – Jerukwudel section. The proposed project is worth USD 11 Mio and will connect the Java Southern Cross Line through 6,15 km in Yogyakarta Province.
- Review Design of Tulungagung – Serang – Malang Road Construction** *10/2020 - 11/2020*
- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Tulungagung – Serang – Malang section in the construction phase. The review design was occurred due to the change of road trail on the field. The proposed project is worth USD 17 Mio and will connect the Java Southern Cross Line through 12 km in East Java Province.

Review Design of Sp. Balekambang – Kedungsalam Road Construction *09/2020 - 10/2020*

- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Sp. Balekambang – Kedungsalam section in construction phase. The review design was occurred due to the change of road trail on the field. The proposed project is worth USD 16 Mio and will connect the Java Southern Cross Line through 18 km in East Java Province.

Review Design of Legundi – Planjan Road Construction *07/2020 - 09/2020*

- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Legundi – Planjan section in the construction phase. The review design was occurred due to the change of road trail on the field. The proposed project is worth USD 5,5 Mio and will connect the Java Southern Cross Line through 4,7 km in Yogyakarta Province.

Review Design of Jerukwudel – Baran – Duwet Road Construction *07/2020 - 09/2020*

- As a Directorate Technical Team, assessed, reviewed, and provided feedback to the design of national road construction on the Jerukwudel – Baran – Duwet section in the construction phase. The review design was occurred due to the change of road trail on the field. The proposed project is worth USD 13,5 Mio and will connect the Java Southern Cross Line through 10 km in Yogyakarta Province.

Design of Slope Protection on Banyumas – Banjarnegara – Wonosobo National Road *04/2020*

- Conducted monitoring and designing slope protection due to landslides on Banyumas – Banjarnegara – Wonosobo national road. The proposed design restored the functionality of the national road on Java Southern Cross Line through 164 kilometers.

World Bank – Strengthening Resilience for Road and Bridge Infrastructure *02-05/2020*

- Reviewed existing Directorate General of Highways (DGH) guidelines and technical specifications as relevant to disaster and climate resilience.
- Evaluated technical input for the existing guidelines and technical specifications from World Bank's consultant.
- Prepared capacity building actions in relation to disaster and climate-resilient road and bridge infrastructure.

Geotechnical Design of Road Raising on Toli-Toli – Silondou National Road *06-12/2019*

- Assigned as a Project Officer for this project. This project aimed to solve the flood problem on Toli-Toli – Silondou National Road. The solution was to design the embankment and the construction phase of the road rising.

Geotechnical Design of Rock Failing Protection on Pape - Tendentana National Road *06-12/2019*

- Assigned as a Project Officer for this project. This project aimed to solve the rock falling on Pape - Tendentana National Road, and the solution was to design the Wire Net and Bufferwall.

Design of Slope Protection on Bahodopi – South East Sulawesi National Road *06 - 12/2019*

- Assigned as a Project Officer for this project. This project aimed to solve the immense landslide on Bahodopi – South East Sulawesi National Road, and the solution was to design a spacing soldier bore pile.

Volunteer in Humanitarian Aid on Rebuilding Houses in Lombok *08/2018 - 03/2019*

- Due to the Lombok Earthquake Disaster in 2018, young engineers from the Ministry of Public Works and Housing were assigned to help rebuild the community by accompanying local people to construct their homes using the RISHA method.

The Construction of Wisma Atlet Kemayoran Blok D10-1 *06/2016 - 02/2018*

- Assigned as a Project Control Manager for this project. In charge of directing the project cost plan and project schedule for Wisma Atlet Kemayoran Project that is worth USD 47.2 Mio. The project was finished in time (18 months) and within the cost and met the standard quality of the project.

The Construction of Artery Road in Survana Sutura Development Housing *09/2015 - 05/2016*

- Assigned as a Project Management Officer, representing the owner of the project and responsible for maintaining the quality and output of the project still within the quality and time planned.

AWARDS

Awardee, The Indonesia Endowment Funds for Education (LPDP) 07/2022
• Selected from thousands of applicants to receive a full-ride scholarship for a Master's degree education from the Indonesian government.

Recipient of *Satyalencana Kebaktian Sosial* 11/2019
(Medal for Service in The Field of Social Welfare)
• Awarded by President of Indonesia, Joko Widodo as an award for social services as a young engineer in rebuilding houses in Lombok due to the earthquake disaster in 2018.

LEADERSHIP AND COMMUNITY INVOLVEMENT

Indonesian Students Association in the United States (Permias Nasional), United States
Officer, Human Resources and Development 08/2022 – present
• Permias Nasional is an organization that aims to represent and support Indonesian students pursuing higher education in the United States. As a Human Resources and Development officer, my responsibilities include providing resources, networking opportunities, and events for its members to engage with each other, as well as with professionals and alums, also evaluating officers' performance within the organization.

Indonesian Society For Geotechnical Engineering (HATTI), Indonesia
Active Member 11/2019 – present
• ISGE is an organization for geotechnical experts to connect with each other to discuss current issues regarding geotechnical issues in Indonesia and become the organization that coordinates the process of certifying geotechnical experts in Indonesia.

Civil Engineering Student Union, ITB, Indonesia
Chairman of 2013 Member Orientation Committee 03/2013 – 11/2013
• Elected through student voting and was responsible for organizing the orientation and admission of 160 new members before being admitted into the Civil Engineering Student Union.

TRAINING & CERTIFICATION

Geotechnical Engineer Intermediate Level (G1) Certification 11/2019
• Granted by Indonesian Society For Geotechnical Engineering (ISGE) and Construction Services Development Board of Indonesia.

Initial Training for Candidate of Indonesian Government Bureaucrat 03 - 08/2018
• An integrated education and training in the Pre-service Period to build moral integrity, honesty, nationalism spirit, motivation, excellence, and responsible character, and strengthen professionalism and competence in the field.