

# HENRY GUNAWAN

Geotechnical Engineer | gunawanhenry@icloud.com | +31-616-770-575

## PERSONAL INFORMATION

Date of Birth : March 28, 2000

Nationality : Indonesian

## EDUCATION

Sep 2022 - Present

### **M.Sc. Civil Engineering, Delft University of Technology**

Specialization: Geotechnical Engineering

Grade: 8.0 out of 10.0 (First Year)

Expected Graduate Date: July 2024

M.Sc. Thesis: Experimental and Numerical Analysis of Piled Raft in Granular Material

Aug 2017 - Jul 2021

### **Bachelor of Civil Engineering, Bandung Institute of Technology**

GPA: 3.79 out of 4.00 (Cum Laude)

B.Sc. Thesis: Geotechnical Planning For Kuala Samboja Port

Teaching Assistant: Numerical Method

## WORK EXPERIENCE

Aug 2023 - Present

### **Geotechnical Engineer Support, Seaway7, Zoetermeer - NL**

At Seaway7, a Subsea7 subsidiary focusing on offshore renewables, I specialize in applying Python and Machine Learning to analyze geotechnical data. My work includes soil data interpretation, self-weight penetration, drivability, pile run, noise mitigation, and suction caisson installation. Previously I've automated the soil interpretation and also found a nice model to predict penetration rate and pressure differences during suction caisson installation. Currently focus on machine learning applications in noise mitigation data during pile installation noise.

Jan 2022 - Jul 2022

### **Process Engineer, Pegatron Technology Indonesia, Batam - ID**

At Pegatron, a subsidiary of Asus engaged in electronic manufacturing for international clients, my role involved collaboration with Chinese expatriates and managing multiple projects for European and Japanese companies. My primary responsibilities included inspecting and analyzing the Surface Mount Technology (SMT) process, preparing reports for new projects, and directly liaising with vendors regarding technical issues.

Jun 2021 - Jul 2022

### **Survey Coordinator, SYSTRA (Freelance), Jakarta - ID**

During my projects with SYSTRA, my team successfully completed five transportation survey projects within a year, including the Jakarta MRT ATP/WTP Survey, Jakarta LRT ART/WTP Survey, and Bandung Public Transport Traffic Counting. My key responsibilities in these projects include managing budget allocations, timelines, and human resources, coordinating with various stakeholders, overseeing site control, and preparing comprehensive reports.

Dec 2021 - Jan 2022

### **Surveyor, GFA Consulting Group, Batam and Makassar - ID**

At GFA Consulting Group, a Hamburg-based company, I managed two Environmental and Social Impact Assessment Projects, focusing on the Batam and Makassar Bus Rapid Transit (BRT) initiatives. My role involved gathering information on land acquisition, households affected by the project, and vegetation impacted.

May 2021 - Dec 2021

### **Co-Founder, PT Amati Teknologi Anagata, Jakarta - ID**

AMATI is a construction sector startup specializing in site visualization and progress reporting. My role involved creating business model, managing tasks and priorities, engaging in marketing strategies, and contributing to UI/UX development, among other responsibilities.

Sep 2017 - Dec 2021

### **Science Olympiad Teacher, Freelance, Indonesia**

Leveraging my experience as a High School National Astronomy Science Olympiad medalist, I have taught at over 15 schools across Indonesia, preparing students for city, provincial, and national level competitions. Additionally, in 2017, I served as a national training tutor, focusing on international selections.

Oct 2020 - Dec 2020

### **Geotechnical Engineer Intern, Terracon Consultants, Arizona - US**

Main Task: Check and validate tension-lateral static loading test applied in East Line Solar, Arizona.

- Gaining experience in work related to geotechnical engineering.
- Learning about operation and safety in American engineering company.

## COMPETITION EXPERIENCE

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2021	<b>Business Case Competition, ITB Civil Engineering Expo - ID</b> 1st Place Task: Solve construction overrun cost and schedule problem with digitalization in monitoring and productivity analysis..
2020	<b>Geotechnical Engineering Competition, Civil Expo ITS - ID</b> Finalist Task: Determine the problem and solution for runway's subgrade design in Paser District, East Kalimantan, Indonesia. Anticipated Problem: Time Consolidation, Settlement, and Bearing Capacity. Proposed Solution: PVD, Deep Replacement with CMC and Geosynthetic-encased Granular Column, Gradually Embankment for Cohesive soil Gain Strength.
2016	<b>National Astronomy Science Olympiad - ID</b> A multi--stages science competition for high school student. National: Bronze Medalist Province: 1st Place City: 1st Place International Representative Selection for IOAA 2017: Participant

## ORGANIZATION AND VOLUNTARY WORK

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Dec 2023 - Present	<b>Overseas Voting Organizing Group, Embassy of the Republic Indonesia, The Hague - NL</b> With the 2024 Republic of Indonesia elections being held, organizers are needed for Indonesian citizens abroad, including the Netherlands. Therefore, the task of the Overseas Voting Organizing Group is to execute these activities so voting process runs smoothly.
Aug 2023 - Present	<b>Creator of Indonesian Student Community in the Netherlands</b> Creating a WhatsApp community to facilitate information sharing, networking, and friendship among Indonesian students in the Netherlands, with a focus on shared interests and talents. Within 6 months, the community has reached 800 members.
Sep 2018 - July 2021	<b>Civil Engineering Student Association in Bandung Institute of Technology</b> Civil Engineering Student Association for discussion and profession. Became vice president from February 2020 to March 2021. Moderator of the National Conference in February 2020. And also a volunteer worker in building a school for village community service in December 2019
May 2018 - Aug 2019	<b>Student Study Orientation in Bandung Institute of Technology</b> Participated in the new student orientation program to introduce the campus environment. Served as Vice Head and Field Coordinator from May to August 2019, and as a staff member from May to August 2018.

## ADDITIONAL SKILLS

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Geotechnical Engineering	: AutoCAD, LPILE, SLOPE/W, PLAXIS 2D/3D, SRD Calculation, Noise Mitigation, Suction Caisson Installation , Pile Run Analysis
Programming	: Python, PyTroch for Machine Learning and Deep Learning, HTML and CSS for Web Development
Design	: Canva and Adobe Photoshop for General Editing, Figma for UI/UX, Vegas for Video Editing

## LANGUAGES

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Indonesian: Mother tongue  
English: Professional use. Fluent in conversation, reading and writing  
Chinese (Mandarin and Hokkien/Southern Min): Fluent in conversation, basic in reading and writing

## PERSONAL INTERESTS

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Running: Completed two half marathons under 2 hours; training to complete a full marathon in March 2024.  
Active in golf and football.  
Occasionally trekking and mountain hiking.