

# Natta Sittirach

TRANSPORT DATA ANALYST, CIVIL ENGINEER

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Nutta Sittirash

Chapel Hill, QLD

## EXPERIENCE

November 2023 – December 2023

**Data collector & entry.** *Trivector Traffic, Stockholm, Sweden.*

At Trivector Traffic, I worked on a parking, inventory, and traffic management project in Farsta Centrum, Stockholm. I collected data, arranging the collected data systematically, ensure its accuracy, and delivered it to the client.

March 2021 – February 2022

**Civil Engineer.** *MAA Consultants Co., LTD., Ratchaburi, Thailand.*

I worked on the “State Railway of Thailand, Railway Track Doubling Project in the South of Thailand”. My responsibilities included approving construction drawings, assisting with field inspections, and reporting progress to the project manager and the State Railway of Thailand. I also participated in tendering and bidding for two other railway projects in the North and Northeast of Thailand. My duties involved verifying bidders’ qualifications and recording meeting minutes during price and quality negotiation with the State Railway of Thailand and other authorities.

May 2019 – December 2020

**Quality Control Engineer.** *Christiani & Nielsen (Thai) Co., LTD., Saipem PLC., Rayong, Thailand.*

The PTT LNG Nongfab Receiving Terminal Project was the most challenging of my career as a civil engineer. My role involved developing and applying quality control systems for construction activities, including building reinforced concrete tanks for LNG storage. I monitored Request for Information (RFIs), Request for Action (RFAs), and the material testing process, crucial for quarterly payments.

Working in a diverse international environment improved my English communication skills. I collaborated with clients, consultants, safety and engineering teams, and contractors. My responsibilities included writing method statements and managing weekly project meetings to address concerns and demonstrate methods, such as methods for building reinforced concrete tanks for LNG storage. Despite the complexity and detailed nature of the tasks, I successfully managed cooperation with all the sectors by attending weekly meetings, all tasks under my responsibility were completed successfully with zero major accidents.

March 2018 – February 2019

**Estimator.** *T-Engineering PLC., Bangkok, Thailand.*

I estimated quantities and costs for construction projects, including warehouses and apartments, and providing bills of quantity (BOQ) for bidding and tendering. My responsibilities include estimating quantities for reinforced concrete structures and conducting site visits with the bidding team.

September 2016 – February 2018

**Civil Engineer / Student Intern.** *CH. Karnchang PCL., Khonkaen, Thailand.*

I began as an intern in the engineering department for the State Railway of Thailand's First Railway Track Doubling Project: Jira Junction to Khonkaen. My responsibilities included designing and drawing drainage systems, monitoring box underpass construction, and assessing existing structures for demolishing or maintenance. After the internship, I worked part-time while finishing my civil engineering degree and then transitioned to a full-time civil engineer role in the construction department, focusing on construction and project management. I was motivated by a supportive manager at the start of my career.

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## EDUCATION

August 2022 – June 2024

**M.Sc.** Transport and Geoinformation Technology (full-time), KTH Royal Institution of Technology. Stockholm, Sweden.

During a two-year program, I trained in transport data collection, analysis, and analytics, developing applications to solve real-world problems. I practiced Python for data analysis, worked on various transport projects, and presented outcomes in seminars and scientific reports. My work included railway traffic planning and timetabling with RailSys, economic planning for railway passenger traffic, modeling and predicting public transport delays, and applying AI and machine learning in transport, etc. I also wrote my thesis with my supervisors from the Transport Planning Division at KTH. The project, titled "During and Post Disruption Impacts of Planned Disruptions to Public Transport System and Passengers". Data used in the project was supported by Stockholm Region, and we have continued working on the project to the present day.

June 2012 – June 2017

**B.Eng.** Civil Engineering (full-time), Rajamangala University of Technology Isaan. Khonkaen, Thailand.

I was trained in both theoretical and practical aspects of civil engineering. This includes engineering mechanics statics, strength of materials, concrete technology, transportation, spatial survey, construction management, etc. These formative years provided a crucial foundation in engineering and essential life skills, benefitting my career and my master's degree in Sweden.

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## SKILLS

QGIS and ArcGIS	Python for data analysis	AutoCAD/Civil 3D
SketchUp 3D	Microsoft Office	Java
RailSys	Microsoft Project	R.C. Design (houses)
Problem-solving	Competency	Goal-oriented
Self-starting	Open-minded	Resilience

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## LANGUAGES

Thai: mother tongue. English: academic. Swedish: communication.

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## REFERENCES

**Wilco Burghout**

Director Center for Traffic Research. Transport Planning Division

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