

# NAT SITTIRASH

TRANSPORT RESEARCH OFFICER / CIVIL ENGINEER

Full Australian Work rights

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Brisbane, Australia



## EDUCATION

**MASTER'S DEGREE,**  
**Transport and Geoinformation Technology**  
KTH Royal Institute of Technology  
Stockholm, Sweden  
2022 — 2024

**BACHELOR'S DEGREE, Civil Engineering**  
Rajamangala University of Technology Isan  
Khonkaen, Thailand  
2012 — 2017

## SKILLS

QGIS  
ArcGIS  
SQL  
Java  
Python (Numpy, SciPy, and Scikit Learn)  
AutoCAD/3D  
SketchUp3D  
GitHub  
RailSy  
Machine Learning  
R.C. Design (Houses)

## LANGUAGES

English - Fluent  
Thai - Native  
Swedish - Basic

## Extra

Presented paper '*A Smart-Card Based Analysis of During and Post-Disruptions Impacts on Public Transport Passengers' Travel Patterns*' the Transport Research Board Annual Conference 2025 in Washington D.C. in January 2025.

## Personal Website

<https://natsit.me/>

## PROFILE

A result-driven graduate student with a Master's degree in Transport and Geoinformation Technology and proven success in applying transport data analytics and machine learning to optimize scheduling and operations in public, rail, and logistics transportation. Possessed problem-solving skills, along with experience in strategic planning and successful client relationship management. Seeking a challenging role leveraging my expertise in the sustainable transport industry, holding full Australian work rights.

## WORK EXPERIENCE

### DATA COLLECTOR AND ENTRY

**Trivector Traffic, Stockholm, Sweden | Nov — Dec 2023**

Collaborated with a team to conduct a systematic traffic evaluation in the parking lot of a community shopping center. This involved developing a comprehensive data collection plan, assigning tasks, and ensuring consistent data entry.

- Collected and recorded license plate numbers of vehicles parked in designated research areas within Farsta Centrum.
- Accurately entered and geo-referenced data, ensuring precise location information, and delivered the completed dataset to the client.

### CIVIL (OFFICE) ENGINEER OFFICER

**MAA Consultants Co, LTD, Thailand | 2021 — 2022**

Participated in a State Railway of Thailand (SRT) project to double railway tracks in southern Thailand. My responsibilities included reviewing contractor-submitted construction drawings for accuracy and conducting on-site inspections to verify compliance with project specifications. I also monitor the progress of overall track work in the project. I also provide support for bidding processes for SRT railway projects in northern and northeastern Thailand from Bangkok headquarters.

- State Railway of Thailand (SRT) Track Doubling Project (Southern Thailand):
  - Reviewed and approved contractor construction drawings.
  - Assisted with field inspections, ensuring compliance with project specifications,
  - Prepared and submitted regular progress reports to the project manager and SRT.
- Northern & Northeastern Thailand Railway Projects (SRT):
  - Assisted the tendering and bidding team, supporting the evaluation for bidder qualifications.
  - Documented meeting minutes during price and quality negotiations with SRT and other authorities.

### QUALITY CONTROL & QUALITY ASSURANCE

**Christiani & Nielsen (Thai) Co., LTD., | Saipem PLC. 2019 — 2020**

My contributions to the PTTLNG Nongfab Receiving Terminal Project in Thailand centered on ensuring the quality and timely construction of reinforced concrete storage tanks. This involved developing and implementing robust quality control systems, monitoring construction progress and materials, overseeing material testing (rebar strength, welded plates, concrete strength), and processing RFIs and RFAs. I was responsible for submitting quarterly payment reports and actively collaborated with clients, consultants, safety teams, engineers, and contractors to develop and implement construction method statements. I manage weekly project meetings and documented decisions, successfully

coordinating the diverse project stakeholders to achieve project goals.

- Quality Control & Construction Oversight:
  - Developed and implemented quality control systems for reinforced concrete storage tanks.
  - Monitored construction activities and inspected materials (rebar, welds, concrete).
  - Manage the RFI/RFA process and material testing procedures.
  - Prepared and submitted quarterly payment reports.
- Collaborative Project Management:
  - Collaborated with clients, consultants, safety, engineering, and contracting teams.
  - Developed and implemented construction method statements.
  - Managed weekly project meetings, documenting decisions and ensuring stakeholder alignment.

## **ESTIMATOR**

### **T-Engineering PLC., Thailand | 2018 — 2019**

My role involved developing accurate cost estimates and bills of quantities (BOQs) for a range of construction projects encompassing warehouses and apartment buildings. This includes undertaking detailed quantity surveying for reinforced concrete structures, conducting site visits with the bidding team to verify quantities on the ground, and preparing comprehensive BOQs for use in the bidding and tendering process.

- Developed accurate cost estimates and BOQs for various construction projects (warehouse, apartments).
- Prepared comprehensive BOQs for bidding and tendering process.
- Conducted site visits with the bidding team to verify quantities, especially for reinforced concrete structures.

## **CIVIL (OFFICE) ENGINEER / STUDENT INTERN**

### **CH Karnchang PCL., Thailand | 2016 — 2018**

I began my career as an intern in the engineering department of the State Railway of Thailand's Jira Junction to Khon Kaen track doubling project, where I designed drainage systems, monitored box underpass construction, and assessed existing structures for demolition or maintenance. After completing my civil engineering degree, I transitioned to a full-time position in the construction department where I focused on construction and project management. I got strong support provided by my managers from both departments.

- Internship (State Railway of Thailand)
  - Designed and implemented drainage systems for railway stations and track drainage.
  - Monitored box underpass construction.
  - Assessed existing structures for demolition or maintenance.
  - Slope-deflection design for batter slope alongside the railroads using KUSlope software program.
- Full-Time Civil Engineer (State Railway of Thailand)
  - Focused on construction and project management.
  - Monitored construction progress (railway stations)
  - Inspected the progress of the railway stations and addressed defects to contractors on field work in the project with a team.

## **REFERENCES**

Available on request