

# NAT SITTIRASH

TRANSPORT GRADUATE / 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  
Khon Kaen, Thailand  
2012 — 2017

## SKILLS

**Data & Analytics:** Python (Numpy, SciPy, and Scikit Learn), SQL, MS Excel  
**GIS & Design:** QGIS, ArcGIS, AutoCAD, SketchUp  
**Project tools:** RailSy, MS Project, Microsoft Office

## LANGUAGES

English - IELTS 7.0  
Thai - Proficiency  
Swedish - Elementary

## ACHIEVEMENTS

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

## PROFILE

Transport Graduate & Civil Engineer with a Master's degree in Transport and Geoinformation Technology from KTH, Sweden. Experienced in both data driven public transport analysis and large-scale infrastructure projects, from railway station drainage design to QA/QC systems for LNG terminals. Skilled in Python, SQL, GIS, and AutoCAD, with proven ability to assess passenger behavior during disruptions (presented at TRB 2025). Adaptable, detail-oriented, and equipped with strong problem-solving and collaboration skills in multicultural environments, with international experience in Thailand, Sweden, and Australia.

## WORK EXPERIENCE

### DATA COLLECTOR AND ENTRY

#### Trivector Traffic, Stockholm, Sweden | Oct — Nov 2023

- Collaborated with a team to perform a systematic traffic evaluation in the parking lot of a community shopping center.
- Developed a comprehensive data collection plan, assigning tasks, and ensuring the integrity of data entry practices.
- Collected and recorded license plate numbers from vehicles parked in designated research areas within Farsta Centrum.
- Accurately entered to ensure precise location information, delivering the completed dataset to the client.

### OFFICE ENGINEER

#### MAA Consultants Co, LTD, Thailand | Mar 2021 — Feb 2022

- Participated in the State Railway of Thailand (SRT) project to double railway tracks in southern Thailand, contributing to two key projects:
- State Railway of Thailand (SRT) Track Doubling Project (Southern Thailand):
  - Reviewed and approved contractor construction drawings for railway infrastructure.
  - Assisted with field inspections to ensure compliance with project specifications.
  - Prepared and submitted regular progress reports to the project manager and SRT.
- Northern & Northeastern Thailand Railway Projects (SRT):
  - Supported the tendering and bidding teams in evaluating bidder qualifications.
  - Documented meeting minutes during price and quality negotiations with SRT and other authorities.

### QUALITY ASSURANCE ENGINEER

#### Christiani & Nielsen (Thai) Co., LTD., | Saipem PLC. May 2019 — Dec 2021

The PTTLNG Nongfab Receiving Terminal Project in Thailand

- Ensured the quality and timely construction of reinforced concrete LNG storage tanks
- Developed and implemented quality control systems and documentation for reinforced concrete storage tanks.

## WEBSITE

<https://natsit.me/>

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## Thesis Project, Master's Degree

<http://kth.diva-portal.org/smash/get/diva2:1883920/FULLTEXT01.pdf>

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## REFERENCES

Available on request

- Improved inspection efficiency by creating a checklist tool, documentations, and an archive system.
- Conducted material inspections for construction, including rebar, welds, concrete, etc, both on site and at various factories for production.
- Organized Request for Information (RFIs) and Request for Approval (RFAs) for construction activities.
- Coordinated with third parties to conduct material testing.
- Prepared quality control documents to submit quarterly payment reports.
- Wrote and implemented method statements for construction; presented methods to clients and submitted statements for approval.
- Collaborated with clients, consultants, safety, engineering, and construction teams to demonstrate construction methods on site.
- Attended weekly meetings with clients and the construction team, reporting on progress.

## ESTIMATE ENGINEER

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

- Created precise cost estimates and bills of quantities (BOQs) for various construction projects, including warehouses and apartment buildings for bidding and tendering processes.
- Conducted site visits with the bidding team to verify quantities, particularly for reinforced concrete structures.

## OFFICE ENGINEER

### CH Karnchang PCL., | CKCH Joint Venture, Thailand | Aug 2016 — May 2018

The State Railway of Thailand's Jira Junction to Khon Kaen track doubling project

- Designed and prepared drawings for railway drainage structures and railway openings; developed methods to connect new structures to existing ones, designs approved by consultant and implemented on site.
- Prepared track drainage plans for 18 railway stations, optimizing outlet placement through field inspections, designs approved by consultant and implemented on site.
- Collected and verified data on existing structures against the project contract; provided technical solutions for structures with identified issues.
- Designed slope stability for batter slopes alongside the railroads using KUSlope software.
- Monitored construction progress and conducted field inspections for railway stations; tracked project timelines using Microsoft Project.
- Supervised and monitored the construction progress of box underpasses and railway stations.