



PATT KRAITHAISONG
STRUCTURAL ENGINEER
CURRICULUM VITAE

PATT KRAITHAISONG CV



PROFILE

Patt is a highly motivated structural engineer with over 5 years experience. Patt has worked in Thailand and New Zealand

Patt has been involved in a variety of projects including in high end luxury resorts and hotel developments, commercial, industrial projects and residential renovations

QUALIFICATIONS

BE (Civil) - Bachelor of Engineering, King Mongkut's University of Technology Thonburi, Bangkok, Thailand 2013

CAREER HISTORY

2020 – Present, Structural Engineer, Structus Consulting Limited., New Zealand

2019 – 2019 Structural Engineer, Beca (Auckland) Ltd., New Zealand

2015 – 2019 Structural Engineer, Beca (Thailand) Co. Ltd., Thailand

2013 – 2015 Structural Engineer, Warnes Associate Co. Ltd., Thailand

TECHNICAL SKILLS

- Experienced in Structural design of insitu reinforced concrete, precast, steel and renovated buildings
- Detailed knowledge of complete design process and consent documentation
- Comprehensive knowledge of New Zealand Design Standards and Codes
- Proficient in use of engineering software such as Spacegass, SAFE, ETABS, SP column, Macrostran.

PROJECT EXPERIENCE, NEW ZEALAND

SEISMIC ASSESSMENTS

Shell Assessments, New Plymouth, 2018

The building is a 2-storey masonry and timber structure moment resisting frame. The building is currently used as a commercial office. Seismic assessment of the portal frame and bracing at ground level to quantify assessment of the structure and calculate the capacity of the existing building.

INDUSTRIAL PROJECTS

Pukekohe Wastewater Treatment Plant, Auckland, 2019

Structural design of the steel structure seating for the existing Bioreactor membrane plant to support a crane girder for Watercare project.

Naseby Substation Transformer, Otago, 2019

Structural design and detailed design of the concrete foundation and steel structure to support the transformer and neutral earthing resistors frame of transformer and gantry.

COMMERCIAL AND RECREATIONAL PROJECTS

St. Mathews Carpark, Auckland, 2019

Structural assessment and strengthening of the existing floor and detailed design for new barrier based on AS/NZS 2890 and proposed methodology to assess the existing floor.

Beca Building, 21 Pitt Street, Auckland, 2019

Structural engineering design of structural supports for solar PV panels on the roof, without penetrating the roof membrane.

RELEVANT PROJECT EXPERIENCE, THAILAND

RESIDENTIAL PROJECTS

Fairmont Hotel Project, Rawai, Phuket, 2017-2019

Project Manager for design coordination and design engineer for luxury resort. Design of reinforcement concrete buildings, steel structures, Façade panel systems, retaining walls, swimming pool, RC foundation and extension of the existing tunnel. 2 – 4 storeys for buildings on Rawai beach. Worked closely with the geotechnical engineers for retaining wall design and foundation design.

Koh Maprao Island Resort Project, Phuket, 2017-2018

Design of reinforcement concrete, precast concrete, steel structure buildings and swimming pool for the luxury resort hotel, villas and facility buildings. Worked closely with the geotechnical engineers for retaining wall design and foundation design.

Ad Lib Hotel Project, Bangkok, 2016-2017

Structural engineer for structural assessment and strengthening of the existing building and design for renovating the existing building. Design of the new building to connect with the existing building to convert from its original function into a luxury hotel. The building is a three-storey reinforced concrete structure.

INDUSTRIAL PROJECTS

Singha Chiang Mai Project, Chiang Mai, 2014-2015

Project manager and structural engineer for the reinforced concrete and steel structure for Singha Beverage factory in Chiang Mai. The project involved 2 side by side buildings over 2000sqms, consisting of a single storey factory with slab on grade and the other building was renovated, and a raised floor was installed.

COMMERCIAL AND RECREATIONAL PROJECTS

Bank of Thailand Project, Bangkok

Structural engineer for strengthening of the printing factory and gold depository. Design of the renovations for the existing building and conversion from printing building into the Bank of Thailand's Learning centre, an education and exhibition facility. The building is a five-storey reinforced concrete structure. It was constructed circa 1945. Design works included reinforced concrete and steel, façade panel system.

**New Harper Studio, Narathiwat Soi14,
Bangkok**

Structural engineer for strengthening works of the existing house building and conversion into an office area. Responsible for Construction management.



