



JASON CHAN
SENIOR STRUCTURAL ENGINEER
CURRICULUM VITAE

JASON CHAN CV



PROFILE

Jason is a structural engineer with over 7 year's engineering consulting practice experience. He has been involved in a variety of New Zealand projects from medium to high rise commercial projects and civil infrastructure projects.

He has experience working from concept design phase through to construction monitoring. He has undertaken and managed PS1 producer statement package submissions, structural design review packages for PS2 producer statements, construction monitoring and Detailed Seismic Assessments (DSA's).

Jason is a problem solver with a good understanding of the importance of design co-ordination, interdisciplinary collaboration and project management. He is committed to listening and delivering sound structural design solutions for the client.

QUALIFICATIONS

BE(Hons) / LLB – Bachelor of Civil Engineering (Hons) conjoint with Bachelor of Law, University of Auckland 2014

Chartered Professional Engineer (CPEng) 2020

Chartered Member of Engineering New Zealand (CMEngNZ)

CAREER HISTORY

2021 – Present, Senior Structural Engineer – Structus Consulting Limited

2015 – 2021 Senior Structural Engineer, AECOM, Auckland

2014 – 2015 Graduate Structural Engineer, URS, Auckland

MANAGEMENT SKILLS

- Excellent communication and written skills, providing clear direction and advice
- Good record in project delivery of structural projects requiring multi-discipline design input
- Trained and capable in project management and project tracking systems

TECHNICAL SKILLS

- Structural design - Analysing and developing solutions to complex structural engineering problems
- Existing building assessments and remedials – detailed seismic assessment of existing buildings and design of strengthening works

- Construction monitoring – well versed in quality assurance procedures and able to propose practicable solutions to site problems
- Proficient in understanding the use of Revit and AutoCad by draftspersons

PROJECT EXPERIENCE

COMMERCIAL PROJECTS

Pullman Hotel 3, Auckland Airport, \$150m, 2018-2021

A new build 10-storey steel frame building with BRB steel frames on concrete piles. There is a transfer truss structure at the front of a building and a transition between nominally ductile to limited ductile bracing at level 2. The flooring system consists of ComFlor spanning onto composite steel beams. Jason was responsible for the structural engineering design from preliminary phase and design co-ordination with the project team during the design phase. During the construction monitoring phase Jason was responsible for quality assurance and monitoring of the works.

Hastings Police station, 2017

A 3-storey steel frame building in Hastings. Jason was responsible for the braced frame design and concrete raft foundation design. The design brief presented some challenges as it is an Importance level 4 building, situated in a high seismic zone with liquefiable soil.

RESIDENTIAL PROJECTS

Waterford Apartments – Block B, Auckland, 2016-2019

The apartment is a 4-storey steel frame concrete shear wall building at Hobsonville,

Auckland. Jason was the engineer responsible for the structural engineering design and construction monitoring.

HEALTHCARE AND AGED CARE PROJECTS

Summerset Villages Te Awa, Napier, 2020-2021

Summerset Te Awa regional main building (RMB) at Te Awa Napier. The building is a three and four storey apartment block. The complex is an Importance Level 3 building and situated within a high seismic region with liquefiable soils. The gravity structure comprises ComFlor slab spanning onto steel frame. For lateral stability, the building has in concrete shear walls formed using Logicwall's AFS wall system. The building superstructure is supported on a stiffened insitu concrete raft. Responsible for structural engineering design, design co-ordination with the project team, construction monitoring and project management from developed design through construction.

Summerset Villages Kenepuru, Wellington, 2019-2021

A new retirement village regional main building design at Porirua, Wellington. Building design is similar to Te Awa but with Rib and Infill flooring system and good soil conditions. Responsible for structural engineering design, design co-ordination, construction monitoring and project management from developed design through construction.

PEER REVIEWS

Summerset Villages Pohutukawa, Cambridge, 2021

Structural design peer review for Building design at Pohutukawa, Cambridge. The

structure is similar to Kenepuru. Responsible for managing the review log and liaising with the engineers throughout the peer review process.

Summerset Villages, Papamoa, 2021

Structural design peer review for building design at Papamoa, Tauranga. Responsible for managing the review log and liaising with the engineers throughout the peer review process.

Scotty's Apartment, Auckland, 2016

Structural design peer review of a 5-storey apartment building, in Auckland. The building has eccentrically braced frame, a transfer bridging structure and secant pile wall basement. Review engineer for the building's superstructure and substructure.

Skyview Apartment, Auckland, 2015

Structural design peer review of a 15-storey apartment building at 15 Scotia Place. The building has limited ductile shear walls and concrete moment frames. The superstructure is supported on concrete piles. Review engineer for the building's superstructure and substructure.

CIVIL INFRASTRUCTURE

Central Interceptor, Auckland \$950m, 2018 - 2019

The Central Interceptor project is a Watercare Services Limited's wastewater improvement scheme for the Auckland region. The purpose of the project is to divert wastewater and combined sewer overflows from Central Auckland to the Mangere Wastewater treatment plant. The scheme requires full structural design for several concrete manholes, chambers and 30m deep concrete drop shafts at 16 different construction sites.

Jason was part of the project structural team leading the effort for design co-ordination, structural design and creating design drawings.

Vodafone Raglans Cable Landing Station, Raglan, 2015

New two storey concrete reinforced masonry building for housing the Tasman Global Assess cable. Responsible for the cable station design to cater for heaving equipment loading and seismic loads.

Onehunga Foreshore Restoration Project Footbridge, Auckland, 2015

Design and construction monitoring of the cladding / throwscreen on the Onehunga Foreshore pedestrian footbridge spanning over SH20. Responsible for structural engineering design and construction monitoring of the throwscreen framing.

DETAILED SEISMIC ASSESSMENT AND STRENGTHENING

Calliope Pump House, Devonport, Auckland, 2015

Detailed seismic assessment and strengthening of an 1800's heritage URM building. The building was strengthened to 67%NBS. Responsible for preparing detailed seismic assessment report and strengthening design.

289 Great South Road, Auckland, 2014

Detailed seismic assessment and strengthening of a 3-storey concrete frame and shear wall office building. Responsible for assessing existing structural members and preparing the seismic assessment report.

