



TONY HE  
STRUCTURAL ENGINEER  
CURRICULUM VITAE

# TONY HE CV



## PROFILE

Tony is a structural engineer with over 4 years of experience in the residential, light-commercial and industrial sectors in New Zealand. He graduated from the University of Auckland where he completed his Bachelor's Degree in civil engineering and Master's Degree in earthquake engineering specialising in structural engineering.

Tony has rounded experience from working on a range of different projects. He prioritises efficiency and quality assurance while also being extremely detail orientated.

## QUALIFICATIONS

BEng Civil (Hons) – Bachelor of Civil and Environmental Engineering, University of Auckland, 2019

MEqEng – Master of Earthquake Engineering, University of Auckland, 2020

## CAREER HISTORY

2023 – Present, Structural Engineer, Structus Consulting Limited, New Zealand

2022 – 2023, Structural Engineer, Silvester Clark Limited, New Zealand

2020 – 2022, Structural Engineer, THL Design Limited, New Zealand

2020, Graduate Structural Engineer, Aurecon, Christchurch, New Zealand

## TECHNICAL SKILLS

- Construction monitoring for residential and commercial projects
- Structural analysis using engineering software such as Microstran, SpaceGASS and ETABS
- Experience in structural design of timber, steel and concrete structures
- Investigation, assessment and strengthening of existing buildings.

## PROJECT EXPERIENCE

### RESIDENTIAL PROJECTS

#### **1-2 Falcon Crescent, Auckland, 2021-2022**

Four storey terrace house development in Hobsonville. The structure comprised of a single storey concrete structure with three stories of timber and steel structure above. Predominantly steel portal frames, GIB bracing and block walls. Structural design for substructure and superstructure and construction monitoring.

#### **21 Scott Road, Auckland, 2022**

Retaining wall design for a large development in Hobsonville. Retaining wall types included timber pole walls, in-ground palisade walls and block masonry walls. Worked closely

with Civil Engineers, Land Surveyors and Contractors on site.

#### **138 Paritai Drive, Auckland, 2022**

3 Lots of 3 storey architectural featured design residential houses in Orakei. Structural design includes light-timber framing, GIB bracing system and steel portal frames as well as foundation design which consisted of blockwork masonry foundation walls, ribraft foundation slab and pile foundations.

#### **COMMERCIAL PROJECTS**

##### **Northwest Shopping Centre, Auckland, 2023**

Detailed seismic assessment of a two-storey retail building in Northwest Shopping Centre. The structure comprised of concrete moment resisting frames at ground level with suspended precast rib & timber infill concrete slab and steel portal frames on the upper floor.

##### **177 Centennial Drive, Taupo, 2023**

Seismic strengthening for a two-storey steel portal frame building in Taupo. Strengthening work involved adding new cross braces and steel members with SED connections and foundation strengthening

##### **Te Unua Museum of Southland, Invercargill, 2024 – 2025**

The East building includes education spaces, offices, meeting spaces and outdoor terrace at first floor, with a café, reception area and amenities at ground floor. There is a central foyer area which is suitable for functions and with feature Waka canopies at roof level. The West building incorporates several Museum exhibition spaces, along with back of house and mezzanine plant areas. There is an

external plant and loading compound further to the West. Involved in the structural and seismic restraint of building components design, plus construction monitoring of the project.

#### **INDUSTRIAL PROJECTS**

##### **Laminex Taupo Plant, Taupo, 2023-2024**

Involved in the structural design as part of the \$275 million development for Laminex Taupo Plant and Fletcher Wood Products. Work involved designing steel structures to support proposed equipment and machinery, multi-level steel platform and foundation designs.

#### **HEALTHCARE PROJECTS**

##### **Whangarei Hospital Front of House Upgrade, Whangarei, 2024**

Structural and civil design for existing canopy upgrades, new paving, new retaining, updated drainage, steelwork platform, barriers and balustrades to the Front of House and Ambulance Bay areas, along with upgrades to the Staff Café Balcony, and including construction monitoring services.

#### **RETAIL PROJECTS**

##### **Waimakariri Junction Stage 1B, Canterbury, 2024**

Two new standalone retail tenancy buildings consisting of precast concrete shear walls, shallow concrete foundations, steelwork portal frames and cantilever front veranda roof and louvre supports. Structural engineering design and construction monitoring.

