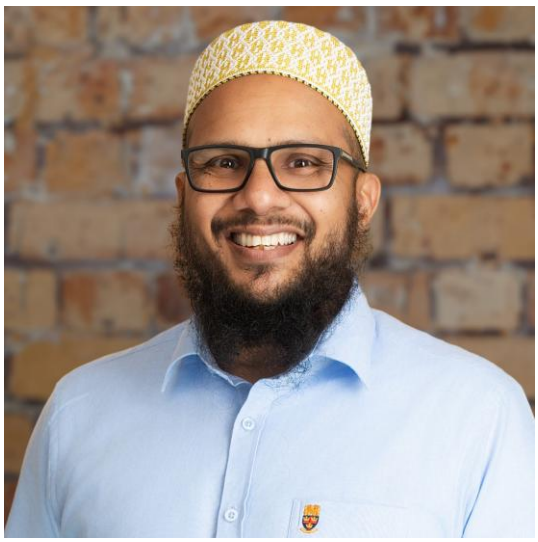
MUSTAFA IBRAHIM
SENIOR DRAFTSPERSON
CURRICULUM VITAE

MUSTAFA IBRAHIM CV



PROFILE

Mustafa is an experienced draftsperson with over 20 years experience, previously based in Australia for 9 years and moving to Christchurch where he has spent 10 years and is currently in Auckland since 2022. He has worked extensively with AutoCAD, Revit and BIM.

Mustafa has been involved in detailing and modelling a wide variety of structures including civic, educational, single- and multi-storey residential, commercial, retail, industrial, aged care facilities and car park buildings.

QUALIFICATIONS

Advanced Diploma in Engineering Technology

CAREER HISTORY

2024 – Present, Senior Draftsperson, Structus Consulting Limited, Auckland

2022 – 2024, Structure Design Limited, Auckland

2014 – 2022, Lewis Bradford Consulting Engineers Limited, Christchurch

2012 – 2014, Constructure Limited, Christchurch

2003 – 2005, Burns Hamilton and Partners Limited, Australia

2009 – 2012, BDD Consulting Engineers Limited, Australia

2005 – 2008, Bonacci Group Limited, Australia

MANAGEMENT SKILLS

- Leadership and guidance of drafting design teams and projects
- Strong communication skills
- Attention to Detail
- Quality drafting documentation

TECHNICAL SKILLS

- Proficient in the use of both Revit and AutoCAD (2D and 3D) for modelling and documentation purposes
- Skilled in the use of SketchUp 3D
- Skilled in the use of Microsoft Office software

SELECTED PROJECT EXPERIENCE

CIVIC PROJECTS

Te Unua Museum of Southland, Invercargill, 2024-2025, $50m

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.

The buildings are designed predominantly as steel frames with Comflor slab and precast concrete shear walls. The foundations are shallow concrete footings for the West building and screw piles with concrete pilecaps and ground beams for the East building. The West building incorporates heavy loading on the roof and wall structures for Museum exhibits, allowing for flexibility of this loading within the spaces. The long cantilever Waka's are formed with steel truss systems supported by large steel beams to the foyer roof. Perforated aluminium rainscreens are the predominant cladding system, supported by secondary standoff steelwork.

Structus engagement from concept stage through construction includes full structural design, 3D Revit documentation, seismic restraint of building components.

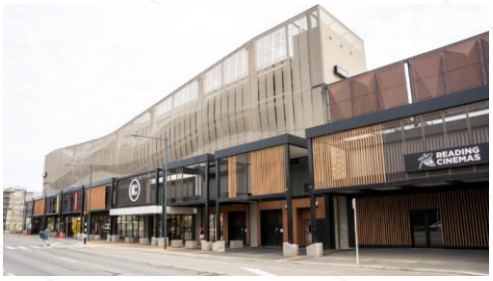
Tūranga, Christchurch Central Library

Multiple award winning, five storey Library. Coordinating with a European based lead architect was the challenging part of this project. I was involved with modelling and detailing the feature long span Atrium Stair with seismic connections at the bottom landings at LoD 350.

COMMERCIAL PROJECTS

Invercargill Central

Redevelopment of Invercargill Central Business / Retail District (Under construction). The new building consists of a five-storey structure with retail and four levels of carpark superstructure. The concrete moment resisting frames consisted of precast cruciform columns and beams with in-situ joints and a lot of reinforcing that needed to be modelled and detailed to assist with coordination.



Eichardts Marine Parade, Queenstown

Three level commercial building beside the historic Eichardts Hotel. A high spec architecturally designed building considering the height limitations and prime real-estate location with an exclusive penthouse on the top floor.

Holiday Inn Express Hotel, Queenstown

11,000 square meter Holiday Inn Hotel complex. The challenging structure required complex modelling and detailing to accommodate the erratic envelope to reflect the architecture's design based on the surrounding ice and rock natural landscapes.

CIAL Freightways Freight Forwarding Facility

11,000m^2 of warehouse space and 2,000m^2 of two storey attached office space. The structure consists of large span steel portal frames, lightweight cladding, and a post-tensioned ground floor slab. Through early design input the overall building layout and structural grids were optimized resulting in efficient use of standard stock steel lengths facilitating rapid construction on-site.

PGG Wrightson Seeds, Lincoln

This is a simple two storey structure, but incorporating clever integration of plant and services, including concealed air inlet/extract and ducting, resulting in a high quality, sleek, low maintenance building. It was an interesting experience to model the cladding envelope.

Langdons Road

The 3.6ha Northfield Business Park site currently includes eight two-storey and three single storey units. The structures consist of portal frame and precast concrete wall construction. A tricky roof to model and detail as the roof ridge line was at an angle which resulted the roof to fall to the corners of the building.

EDUCATION PROJECTS

Christchurch Boys High School Hall

The New Assembly Hall building is a large specialist gathering space with seating for over 1350 people over two levels with a large main

stage area, control rooms and stage lighting facilities. This is a carefully modeled and detailed steel portal frame structure to the main hall area with a mezzanine floor level which wraps around the main stage to limit and minimize the bounce and acoustics. Given it is high profile school, it was quite a learning experience working with the Ministry of Education, not to mention tight time frames.

Ao Tawhiti School, Christchurch

The 6,000m^2, four-storey building includes a feature central atrium and a cantilevered full height precast panel party wall with insitu panel stich joints and seismic steel connections.

RESIDENTIAL PROJECTS

Kingsview Apartments, Auckland, 2023-present, $20m

A new premium quality residential development in Mount Eden, Auckland. The development comprises a 4-storey residential block of 11 no. high end apartments, over part lower level carparking plus a commercial food and beverage space. The structure generally comprises precast concrete flat slab flooring on precast concrete sway frames and shear walls, supported on a concrete raft foundation slab. Three full height internal atriums and glazed covered walkways allow natural light through to the apartments. Structus services comprise structural and seismic restraint engineering design and construction monitoring.

Rakaia Apartment Building & Carpark

The five-storey Rakaia Apartments building contains 15 high end apartments. The 1,300m^2 building consists of precast concrete walls and in-situ concrete floors above an in-situ concrete raft slab. The structure is founded on stone column ground improvement to mitigate the effects of soil liquefaction.

Richardson Road Apartments

Mustafa was responsible for the drafting and complete BIM modelling of three modular, timber, six-storey apartment buildings.

There were three stages to this project, firstly site works and foundations, secondly prefabricating the modules off site and lastly constructing the building. As a result, Mustafa modelled and detailed all connections and details for each

stage to ensure everything was pre-considered.