



POORNAKA DHARMASENA STRUCTURAL ENGINEER CURRICULUM VITAE

POORNAKA DHARMASENA CV



PROFILE

Poornaka is a structural engineer with over 8 years experience in the consulting environment, which has allowed him to be involved in many projects across the commercial, industrial, community, civic and residential sectors.

He has experience in structural steel, reinforced concrete and composite design as well as a holistic understanding of all stages of a project ranging from conceptual through construction.

He has a passion for new engineering technologies and analysis methods, which allow for economic designs, and takes pride in providing efficient and innovative solutions while considering code compliance and buildability.

QUALIFICATIONS

MEngSt (Hons) – Master of Engineering Studies, University of Auckland 2013

BE (Hons) – Bachelor of Engineering, University of Auckland 2010

CAREER HISTORY

2018 – Present, Structural Engineer – Structus Consulting Limited

2016– 2018, Structural Engineer – DHC Consulting, New Zealand

2014 – 2016, Structural Engineer – Mott MacDonald NZ Limited, New Zealand

2010 – 2014, Civil Engineer – AECOM New Zealand Limited, New Zealand

TECHNICAL SKILLS

- Ability to understand clients' key needs and their drivers and apply specialist knowledge to add value to their projects
- Detailed knowledge of reinforced concrete, precast concrete, steel, masonry and composite design
- Detailed knowledge of many design and analysis computer software, and local and international standards
- Seismic analysis and design of many building forms using various types of materials
- Ability to apply engineering knowledge to solve complex problems and provide practical solutions

PROJECT EXPERIENCE

Gasometer Carpark, Auckland, 2018-present, \$25m

The project is a 15-storey split level carpark in Takapuna, Auckland where Poornaka is trusted with various design packages such as structural analysis of the building, lateral load

resisting system design, composite column design, structural design for fire conditions and foundations design.

**Milford Living, Auckland, 2016-2017,
\$100m**

11 storey retail and apartment complex where Poornaka was trusted with modelling the structure and design of the lateral load resisting system. This included liaising with the client, architect and other consultants, peer reviewers and drafters.

**309 Broadway Westfield, Auckland, 2017,
\$500m**

This development is a large retail complex in Newmarket, Auckland where Poornaka was trusted with the developed design of the 8 Cinema complex which is located on the top most floor of the retail complex.

**Paragon Apartments, Auckland, 2016,
\$30m**

11 storey apartment project, where Poornaka was trusted with delivering the building consent design. He was trusted with gravity and lateral system design, liaising with other consultants, managing drafters and graduate engineers.

**Greenwich Gardens Retirement Village,
Auckland, 2016, \$50m**

This project consisted of two 6 storey buildings where Poornaka was trusted with various design packages such structural analysis, retention design, lateral system design and on-site construction monitoring.

**Waikaremoana Transformer Upgrades,
Hawkes Bay, 2014**

The project involved detailed design, tender support and construction monitoring of civil

and structural aspects of the installation of 60 tonne transformers at Piripaua and Kaitawa power stations. The project had unique challenges where non-standard solutions were required to minimise outage times and ensure safe installation onto 1940's construction. The project was coordination intensive and involved collaborating with on-site staff, geotechnical, fire and electrical engineers. Poornaka was trusted with various design packages varying from feasibility investigations, piled foundation design, firewall design, anchor design to construction monitoring.

