Professional
Consulting
Engineers

## Director

# Hamish Pearse-Danker

Phone: 07 562 2182
Mobile: 022 608 5734
Email: hamish@e3c.co.nz

## Summary of Qualifications

**CPEng** - Chartered Professional Engineer 2013 to Present
**IntPE -** International Professional Engineer
**MEng (hons) -** Master of Civil Engineering with a Year Abroad

## Professional Memberships

IPENZ - Professional Member MIPENZ, CPEng, IntPE
Structural Engineering Society NZ

## Education

2002 - 2006 Imperial College London (UK) / TU Delft (Netherlands)
Master of Civil Engineering with a Year Abroad
Pippard Memorial Medal and Prize for final year excellence in structures.

## Work Experience

2013 - present **e3 Consultants NZ Ltd, Tauranga, Company Director**
Responsible for the design and monitoring of commercial, industrial and residential buildings.

Project involvement:

- Helms Trust - Hewletts Rd
  A two-storey 760m² office and 1850m² workshop. The office is a precast concrete shear wall building with a precast double tee floor. The workshop is a steel portal framed building clad with a mixture of precast concrete tilt walls and lightweight cladding.
- Goddards Centre - Seismic Review and Strengthening
  The seismic assessment and strengthening of two mixed retail and office buildings. A two storey, 600m², 1960s concrete shear wall building to 80%NBS and a two storey, 250m², 1960s concrete moment framed building.
- Robert Page Engineering Ltd
  A 560m² extension and alteration to Robert Page Engineering's existing workshop. The extension is a steel portal framed building clad with a mixture of precast concrete tilt walls and lightweight cladding. Design challenges included: Deep soft soils requiring 35m piles, contaminated ground, existing structures, and located in a flood risk zone.

2012 - 2013

**Beca Ltd, Tauranga, Structural Engineer**
Job manager responsible for structural design and observation of commercial and industrial projects. Seismic assessment and strengthening design of commercial and industrial buildings.

Project involvement:

- Grace Hospital Day Stay Extension
  A two-storey 1,800m² extension to the existing hospital. The building has a lightweight upper storey on a suspended precast concrete floor supported on a mixture of precast concrete wall and steel frames.
- Comvita - Interim Office
  A single storey 500m² office development for Comvita. This is a steel portal framed building clad with a mixture of precast concrete tilt walls and lightweight cladding.
- 87 First Ave - Seismic strengthening and refurbishment
  Seismic strengthening to 100% NBS of a two-storey office building at 87 First Avenue. This involved the installation of two steel eccentrically braced frames, the construction of a reinforced masonry shear wall and the glass fibre wrapping of the first floor columns.
- Bay of Plenty District Health Board – Seismic Review
  Seismic assessment and strengthening of buildings used and owned by Bay of Plenty District Health Board.
- Arthur P Sigrah Memorial Hospital Rehabilitation
  Two part project involving the refurbishment of the existing 2,200m² hospital and the construction of two new buildings. The refurbishment involves re-roofing the entire hospital, changing the internal wall layout and providing additional seismic resilience. The two new buildings consist of a new single storey 1,200m² reinforced masonry inpatients building and a 600m² operating theatre building.
- Ballance Agri-Nutrients Ltd – Seismic Review
  Seismic assessment and strengthening of buildings owned by Balance Agri-Nutrients. This involves carrying out IEP assessments, stair assessments, detailed seismic assessments, developing concept strengthening options and detailed seismic strengthening design.
- Westpac New Zealand Ltd – Seismic Review
  Seismic assessment and strengthening of buildings used and owned by Westpac New Zealand Ltd.

2007 - 2012

**Redco NZ Ltd, Tauranga, Senior Structural Engineer**
Project engineer on a wide range of commercial, light industrial and residential projects. Leading a team on medium sized projects, responsible the management of time, budget and resources.

Project involvement:

- 247 Cameron Road - Five-storey office and retail development
  Five storey 8500m² office and retail building. The primary structure consists of a two way steel moment sway frames on a reinforced concrete masonry basement. The floor structure consists of precast double tees with in-situ topping. The building Is clad with precast concrete panels and curtain wall glazing.
- Seventeenth Ave Development
  Single storey steel and polystyrene sandwich panel office building.
- C-Tech Manufacturing Plant
  Light industrial and office development. 30m x 60m steel portal framed shed with concrete tilt walls and two storey concrete and masonry office.
- Otorohanga Timber Processing Plant
  Light industrial timber processing plant, including a planer shed, timber treatment plant and storage shed. Three LVL portal framed and concrete masonry structures.
- Project Engineer to Golden Homes Ltd
  Responsible for leading a team of engineers, technicians and admin staff to meet the client's engineering requirements. Ensuring that the engineering of over 1000 houses a year is delivered on time and within budget.
- WHK Invercargill Office Development
  Two-storey office and retail development with a mixed concrete and steel structure.
- Cold formed steel portal shed bracket system, King Connector
  Working with the client to develop a connecting system for cold formed steel C-section portal framed sheds with full supporting documentation. Comprehensive product development with prototyping and testing to create the optimum bracket system that met the client’s requirements. Creating a computer program to automatically generate portal span tables with over 5000 combinations.
- Consulting Engineer to NASH (National Association of Steel Housing)
  Responsible for delivering technical reports, presentations and construction guidance for the steel framing industry.

2006 - 2007

**Expedition Engineering Ltd, London, Structural Engineer**
A graduate engineer involved in the design and development of a range of buildings including the 167m high Intesa  San Paulo Tower, a 14 unit apartment block and a composite glass structure.