



Carl Devereux | Technical Director

Carl has over 16 years' experience of Structural and Civil projects with a particular focus on building structures and seismic engineering. He has had a substantial involvement in the emergency response and recovery following the recent Canterbury Earthquakes and continues to provide technical advice to the NZ Government and building owners on all aspects of earthquake damaged and earthquake risk buildings. Carl has extensive experience in assessing and strengthening of existing buildings and design of all types of new building structures.

Qualifications

BE (Civil) Hons, University of Canterbury, 1995
MIPENZ, CP Eng.

Specialisation

Structural & Civil Engineering

Years in industry

16

Expertise

- Seismic Engineering
- Seismic strengthening of existing structures
- Urban Search and Rescue (USAR) Disaster Response
- Demolition of earthquake damaged buildings
- Build ability and conceptual structural engineering
- Detailed design and documentation for new structures
- Multistorey timber engineering

Project Experience

• Seismic Engineering	April 2004 – Present	Aurecon, Nelson, New Zealand - Technical Director
• Seismic strengthening of existing structures	2002 to 2003	Price and Myers, London, UK
	2001 to 2002	Hyder Consultants, Bristol, UK
• Urban Search and Rescue (USAR) Disaster Response	1995 to 2001	ISP Consultants, Wellington, NZ

DISASTER RESPONSE

- NZ Fire Service USAR Task Force first response to Canterbury earthquakes in September 2010 and February 2011
- Civil Defence critical buildings engineer for urgent building assessments and demolitions post Canterbury Earthquake February 2011
- Canterbury Earthquake Recovery Authority CERA - Lead engineer for Significant Buildings team. Responsible for all 5+ storey building demolitions in CBD red zone

funding assistance to Heritage Building owners requiring earthquake strengthening

- Marlborough Boys College – Structural leader for seismic strengthening of earthquake prone buildings
- Anglican Churches – Assessment, repair and strengthening design of Anglican Churches following the September 2010 Canterbury Earthquake
- Kaiapoi Telephone Exchange – Structural leader for assessment and repair design for telephone exchange building following September 2010 Canterbury Earthquake

SEISMIC STRENGTHENING

- Wellington City Council Building Safety Policy – Project leader for seismic assessment and management of 500 suspected earthquake prone buildings in Wellington City
- Wellington City Council Heritage Funding for EPB's – Project leader for management and allocation of Council

- Ravensdown Stores – Structural leader for assessment and strengthening design of 5 masonry stores in Christchurch
- H&J Smith – Project Leader for seismic strengthening review of existing buildings, Nelson

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- GCW Solicitors – Project leader for seismic assessment and strengthening design
- Cuddons Factory - Project leader for seismic assessment and strengthening design, Blenheim
- Masonic Lodge Building – Project leader for seismic assessment, Blenheim
- Numerous commercial building seismic strengthening projects in Wellington
- Ravensdown – Structural Leader for seismic assessment and maintenance projects for manufacturing sites at Hornby, Awatoto and Dunedin
- Air NZ Technical Hangar – Design and construction observation for new hangar for C130 aircraft, Nelson.
- Nutrizeal – Structural leader for new super critical extraction facility, Nelson
- Montana Winery – design and construction observation of new overhead pipe bridge, tank farm and centrifuge room

COMMERCIAL BUILDINGS

- Bluebridge Ferry Terminal – design review of new ferry terminal for Bluebridge Ferry Service Picton
- Presbyterian Support Regional Support Centre – Structural leader for design of new regional office and service centre, Nelson
- Wellington Hospital - Preliminary design scheming and reporting for new Wellington Regional Hospital
- Silverstone - Design of new pit lane buildings for Silverstone Formula 1 Race Circuit
- Heritage Buildings Bristol - Design and construction supervision of several historic building restoration projects
- Portishead Office Park Development – Design of four new commercial office buildings
- Shell Select Upgrade – Project leader for retail store upgrade for Shell NZ Central Region
- Nobilo Wine Group – upgrade design of existing site staff facilities and design of new access bridge
- Kim Crawford Winery – design of new overhead pipe bridge and piped services upgrade
- Aghire and Supplies Ltd – design review of new light industrial office, storage and workshop facility
- Orlando Framingham Winery – construction observation of new tank farm and process line
- Safe Air Ltd – Inspection, reporting and design of existing air force hangar alterations for P3 Orion and C130 Hercules aircraft upgrade
- Airbus - Scheme Design of Production Line Warehouse

EDUCATION

- NMIT Arts and Media - Structural leader for prototype multistorey timber education building
- Garin College, Nelson – Structural leader for new Catholic Secondary school. Lead engineer responsible for all engineering services
- Marlborough Boys College – Structural leader for seismic strengthening of earthquake prone buildings

INDUSTRIAL

- Holcim Cement – Structural Leader for seismic assessment of existing concrete silos at Westport Cement Plant
- Holcim Cement – Structural Leader for maintenance and building strengthening projects for Westport Cement Plant

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- Rhondda Schools, UK – Design engineer for new Secondary schools in Rhondda region

SPORTING FACILITIES

- Saxton Field Sports Stadium – Structural leader for design and project management of new \$12M indoor sports facility for Saxton Field Sports Complex, Nelson
- Trafalgar Park Upgrade – Structural leader for design of new stands for Trafalgar Park rugby ground upgrade
- Trafalgar Park Upgrade – Project leader for design of new media facility and sports lighting for Rugby World Cup

BRIDGES

- Normanby Bridge – Structural leader for scheme design, tender review and observation of new 47m span bridge across the Maitai River for the Nelson City Council
- Collingwood Street Bridge Repairs – Structural leader for repairs and strengthening of steel arch bridge, Nelson
- Nelson City Council Bridge Seismic Assessments – Structural leader for seismic assessment of road bridges for critical lifelines study
- Airport Estates Culvert – Structural leader for new 450m long box culvert for Airport subdivision, Nelson
- Nelson City Council Bridge Inspection Project 2004 – Structural leader for inspection, reporting and recommendations for upgrade on 110 bridges in the Nelson region
- Nelson City Council Bridge Inspection Project 20011 – Structural leader for inspection, reporting and recommendations for upgrade on 85 bridges in the Nelson region

- Silverstone - Scheme design for new 150m long cable stayed access bridge for Silverstone Formula 1 Race Circuit
- Saxton Road West Cycleway Bridge – Design and construction observation of new bridge, Nelson
- Department of Conservation – Structural Leader for inspection and design of numerous back country bridges and viewing platforms, Nelson Region
- NZTA Bridge Inspections – Inspection of State Highway bridges for general maintenance

RESIDENTIAL

- Katania – Project leader for new 40 lot hill side subdivision, Brightwater, Nelson
- Totara Grove – Structural leader for new residential development of 20 townhouses, Nelson
- Featherston St Apartments - Design of new four storey apartment addition to existing inner city building, Wellington
- Brook Valley Motor Camp – Project leader for residential storm water upgrade project, Nelson
- Brooklyn Heights – Structural leader for design and construction management of new 90 lot hillside subdivision, Brooklyn Wellington
- Baypoint Apartments – Structural Leader for seven storey apartment building, Oriental Parade, Wellington
- Pimlico Towers - Design and Construction Supervision of Pimlico Towers, and residential apartment complex
- Queen Anne on the Quay – Design of six storey Apartment Building, South England
- Design and construction observation of numerous architecturally designed residential projects

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ENGINEERING AWARDS

- ACENZ Gold Award – USAR
Response to Canterbury Earthquakes
- IPENZ Fulton Downer Gold Medal –
Response to Canterbury Earthquake
- Aurecon Chairman's Award – NMIT
Arts and Media
- Aurecon Innovation Award – NMIT Arts
and Media
- Property Council NZ Award of
Excellence – NMIT Arts and Media
- ACENZ Merit Award – NMIT Arts and
Media
- ACENZ Merit Award – Trafalgar Park
Sports Lighting
- Timber Design Award 2009 – Saxton
Stadium
- ACENZ Silver Award – Saxton Stadium