



sellick  
consultants



CHRIS BUCHANAN

## Director – Structural Design Engineer and Residential Manager.

Chris joined the team at Sellick Consultants in 2006 as a Full-Time Junior Draftsperson where he progressed to Senior Structural Draftsperson, and then Cadet Engineer after completing his Bachelor of Civil Engineering with Honors at University of Wollongong. During his time, Chris became a manager of the Residential and Industrial Sectors and is now a proud co-director of Sellick Consultants.

### Qualifications

Bachelor of Engineering (Civil) with Honours,  
University of Wollongong.

Diploma of Civil Engineering (Dist), NSW Tafe,  
Wollongong.

Member, Institute of Engineers Australia

National Engineers Register  
(4038840–Structural, Civil)

Registered Professional Engineer of Queensland

### Education

2008 – 2009 Wollongong Tafe, NSW.

2010 – 2013 University of Wollongong

### Community Involvement

2014 – Present Concrete Institute of Australia.  
ACT Sub-Branch  
Committee Member

2016 Building Designers Australia.  
ACT Chapter Awards Judge

### Work Experience

Throughout Chris's employment as a structural engineer he has gained extensive experience in the field of structural engineering. Chris has a wide range of design skills which includes all stages of structural design ranging from conceptual design through to detailed design of residential, commercial and industrial structures. During design Chris draws on experience in varied design strategies for analysis, from first principles and product specific tools right through to high end Finite Element Analysis software, such as Strand7, RAPT, Ram Concept and SpaceGass. Chris has experience in all types of construction techniques including but not limited to timber design, structural steel, post tensioned and traditional reinforced concrete. Chris designs structures incorporating systems including lightweight steel framing, tilt- up and precast concrete panels, Ultrafloor, ECO Block, Glulam timber and steel/concrete composite flooring. Chris works in the capacity of a sole designer and project manager or in a supporting role as part of a design team.

Croser Residence, Campbell



Residence, Forrest



Chris has a strong background in residential design where his experience ranges from design of single and multi-level dwellings ranging from 'affordable housing' right through 'top end' architecturally designed homes with a build costs in excess of \$3.0m. Chris is not only able to provide cost efficient solutions where required, but he is also able to work with Architects and interior designers to provide quality feature designs and details.

Chris' Industrial design experience has included the design of many warehouse developments in the ACT region from single occupancy buildings up to developments in excess of 4000 square meters. Projects in this sector have included storage, bulky goods retail buildings and specific use facilities.

Chris has lead the structural design of major data storage facilities in the ACT region. This work has been carried out to optimise mechanical and electrical engineering requirements while ensuring maximum rentable floor space for the developer. While meeting the local building codes and standards Chris has also worked to deliver compliance with international data centre standards.

In 2016 one data centre facility was awarded the winner of the MBA Building Awards for Building more than \$50m category.

In addition to the above areas, Chris has been involved in work on educational facilities, sporting clubs and aged care facilities as well as assisting in the preparation of dilapidation, expert witness and insurance claim reports. As part of his employment and education, Chris has been required to be familiar with various governing documents including the current BCA/NCC and relevant Australian Standards.

During Chris' studies at the University of Wollongong, Chris was responsible for the lead structural design of the Illawarra Flame's entry into the Solar Decathlon, hosted in China. This involved the design and detail of a highly energy efficient, modular single dwelling that was shipped to China as a pre-finished house. The UOW's entry into the competition was the judged as the winning house against 19 other world class entries. This experience ignited Chris's enthusiasm for sustainable design which he continues to foster with sustainable building practices often forming part of Chris' design solutions.



Specialty Fasteners

FOR MORE INFORMATION CONTACT SELICK CONSULTANTS

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structural civil hydraulic engineers