

**DANIEL HANSEN**  
**Senior Design Engineer**

*Bachelor of Engineering with Honours (Civil)/ Bachelor of Science (Physics)*  
*James Cook University (2007)*  
*Registered Professional Engineer of Qld, 15948*  
*MIE Aust, CP Eng, NER (Civil & Structural)*

**PROFESSIONAL EXPERIENCE****Project Types**

*Residential Buildings*  
*Educational Facilities*  
*Commercial Buildings*  
*Industrial and Warehouses*  
*Mine Facilities*  
*Condition Reports*  
*Refurbishments*  
*Finite Element Modelling*

**Skills**

*Problem solving*  
*Conceptual and preliminary design*  
*Structural design*  
*Design coordination*  
*Project management*  
*Investigation and reporting*  
*Site supervision*

**Inductions**

*General Safety Induction (White card)*

**LCJ ENGINEERS PTY LTD****Senior Design Engineer 2014 – Present**  
**Graduate Design Engineer 2008 - 2012**

Daniel is a technically minded and practical engineer with a range of experience in residential, commercial and industrial construction projects. Daniel's enthusiasm for engineering and excellent communication skills leads to his ability to undertake multidisciplinary projects from proposal to completion, under pressure and under budget.

Daniel's key responsibilities at LCJ Engineers include the preparation of proposals, attending stakeholder meetings, coordination of consultants, schematic and detailed design, management of the preparation of technical documentation including drawings and reports, and field supervision of construction activities through to completion.

**Infrastructure, Industrial and Commercial**

**MSJ Storage Shed, Mt St John, Townsville** – Delivered a new portal framed building with associated civil works as a principal consultant. Involved client liaison, engagement and management of subconsultants and extensive resolution. Delivered project on time and under budget.

**Mount Isa Mine Expansion, Refrigeration Plant** – Project involved relocation of the existing underground cooling facility to allow for open cut pit expansion. Provided structural design and documentation of new cooling tower steelwork and transformer enclosures including firewalls, oil spill bunds and associated access steelwork. Designed and documented new pipework bridge to support cold water lines. Project required extensive coordination with other design consultants and was successfully completed under pressure in a tight timeline.

**Townsville Wastewater Upgrade Project (TWUP), Construction Phase and Temporary Works Design** – During the construction of the TWUP Daniel provided a variety of engineering design and advice at the request of the contractor. Designs included catenary support systems for power and data cabling, excavation advice, formwork design, safety platforms and walkways.

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### **Institutional**

**Marian School Extensions** – Structural design of 22mx45m fully enclosed steel portal framed building with stage. Innovative transfer truss was designed to accommodate missing columns in three bays. Designed a two storey masonry classroom with suspended concrete slab and a masonry library with light gauge steel framing. Supervised construction through to completion. (\$2.5M)

**Calvary Christian College Library** – Project delivered a state of the art, architecturally driven library with auditorium. Extensive use of precast in walls and seating plats. Designed cast insitu suspended concrete slab. Overcame challenging ground conditions with a pier and beam footing system. Provided site supervision through to completion. (\$3.3M)

### **Residential**

**Vucak Residence, Townsville** – Client contact and lead structural designer for prestigious marina-front residence with modern architecturally driven design. Utilised precast extensively for all elements. Foundation design was timber pier and beam due to very poor marine clays. Full height glass frontage was designed for cyclonic wind pressures. Included internal pond and catwalks. (\$1.75M)

**Fairley Residence, Townsville** – Structural design of large extension to existing hillside residence with cantilevered balcony and new spray lined pool on a challenging filled site. Timber framed walls subject to very high pressures and ground conditions both required special consideration.

### **Shopping Malls**

**The Landing, Townsville** - A key member of the design team responsible for the successful Design and Construct tender. Involved tilt up panel and roof steelwork design. Responsible for field supervision throughout the construction sequence including footings, concrete column, post-tensioned slabs and steelwork. Extensive problem resolution was undertaken which involved coordination with the contractor, client and various design consultants. (\$13M)