

Introducing

Richard Guterres

Position

BIM Lead/Senior Revit Structural Modeller
MPC Consulting Engineers, Newcastle



Qualifications

- Diploma of Structural Engineering, Sydney Institute of TAFE, 2006
- Certificate in Detailed Drafting (Certificate II), Sydney Institute of TAFE, 2004
- Certificate in Drafting Trades, Structural (Certificate III), Sydney Institute of TAFE, 2004
- Bachelor of Science (Computer Science, Computer Information Systems and Geographical Information Systems), Macquarie University, 1992

Summary of Experience

Richard has 14 years' experience in the field of structural and civil engineering with drafting and modelling experience in a range of projects, from residential to large commercial and institutional building projects.

His goal is to use Building Information Modelling (BIM) and Integrated Project Delivery (IPD) to improve design and construction. Using Revit (Structure) and Navisworks (Manage) to facilitate n-dimensional modelling for increased productivity and quality with a decrease in project cost and time.

Richard has had a varied career as a CAD System's Engineer and Certified Internet Webmaster, before retraining as a draftsman. His previous professional activities have furnished him with an extensive array of software and systems knowledge.

Professional Experience

April 2014 to present BIM Lead/Senior Revit Structural Modeller
MPC Consulting Engineers

Richard is responsible for the delivery of high quality modelling and documentation to AS1100 and MPC standards of residential, commercial and institutional building projects. His primary focus is working closely with architects to coordinate and achieve BIM project briefs.

His duties encompass:

- Liaising with engineers to provide technical support.
- Produce technical drawings, modelling and documentation for buildings.
- Checking documentation to maintain high levels of quality assurance.
- Mentor and train junior draftspersons.

A brief list of projects:

- **Newcastle Airport**
The design and BIM documentation of the \$12 million Newcastle Airport expansion for the 2,600 sqm new arrivals hall including permanent customs, immigration and quarantine areas to become an international terminal.
- **Belmont Police Station/Courthouse**
The design and documentation of the \$18 million new Local Area Command Headquarters for Lake Macquarie. The development will replace the existing facilities with a 5,000 sqm, three-storey building.
- **St Pius X High School, Adamstown**
The design and documentation of Block D with the refurbishment of new library facilities with flexible learning/creative spaces, amphitheatre and seminar room as well as the adjoining undercover plaza forecourt and external civil works.
- **St Bede's Catholic College, Chisholm**
The design and documentation of Block C for adaptability and flexibility to provide the requirements of the junior curriculum inside the building. New library or civic hub space, science lab and food technology kitchen as well as art facilities including music and performing arts areas.
- **St Philips Christian College, Cessnock**
The design and BIM documentation of the new two-storey multi-functional Sports Centre, gym and external civil works.
- **Sporties Tuncurry**
The design and documentation of the refurbishment for the new bar, dance floor and lounge facilities as well as the external outdoor area.
- **Club Forster**
The design and BIM documentation of the refurbishment for the main bar and lounge, new porte-cochere, foyer and reception as well as earthquake strengthening works.
- **Service Centre, Tomago**
The design and documentation of several pre-cast panel industrial units, service centre facilities and external civil works.
- **Fuchs Lubricants, Beresfield**
The design and documentation of the portal frame warehouse and adjoining administration building, bunded chemical storage facilities, and external civil works.
- **Clarence Valley Council Depot, Grafton**
The design and BIM documentation of the several portal frame warehouses and administration building and external civil works.

January 2011 – 2014 Senior Structural Bridge Draftsperson / 3D Modeller
AECOM, Newcastle

Richard was responsible for the production of technical drawing, modelling and documentation of bridges for both commercial and government clients to AS1100 and/or client specifications.

His duties encompassed:

- Liaison with engineers providing analysis and technical support.
- Documented and researched technical specifications for the design of bridges.
- Designed and developed training and presentations.
- Maintained high levels of quality assurance.
- Mentored and trained junior draftspersons.

A brief list of projects:

- Old Wallgrove Road in Sydney for RMS, included detail design drawings for widening of pre-cast bridges at Eskdale Creek and Reedy Creek bridges
- F1 to Thomas Street in Newcastle for RMS, included detail design drawings for widening of a spaced-plank bridge.
- Gundaroo Drive Duplication in Canberra for TAMS, included detail design drawings for widening to BEBO arches, I-girder and plank bridges plus a new Super-T bridge.
- Ashley Drive Duplication in Canberra for TAMS, included detail design drawings for a new spaced-plank bridge.
- Parkes Way Widening in Canberra for TAMS, included detail design drawings for widening of pre-cast bridges at Clunies Ross Street and Sullivans Creek bridges.
- Yarralumla Interchange in Canberra for TAMS, included concept design drawings
- Moreton Bay Rail Link project for Queensland Rail, included detail design drawings for a new 18 span pre-cast bridge at North Pine River.
- North West Rail Link project for Department of Transport NSW, included 3D modelling and production of detail design drawings in Revit for several underground stations

March 2008 – December 2010 Senior Structural Bridge Draftsperson / 3D Modeller/ Drafting Coordinator - *GHD, Newcastle*

Richard was responsible for coordination and management of a small drafting team for both civil and structural projects. This included liaising with drafting coordinators in other offices at GHD and drafting team managers from RMS and ARTC.

A brief list of projects:

- Hunter 8 Alliance project for ARTC in the Hunter region, include 3D modelling and production of detail design drawings in Revit for road overbridges at Hermitage Road, Nelson Street and Station Lane to RMS standards and rail underbridges at Jump-Up Creek, Sawyers Creek and Black Creek to ARTC standards.
- Minimbah Bank third track project for ARTC in the Hunter region, included detail design drawings for road overbridges at Range Road and Golden Highway.
- Newmarket Dart 02, in New Zealand for OnTrack, included detail design drawings for the twin island platforms including the reorganising of track layout for Southern and Western Lines.

May 2004 to February 2008 Structural Drafter
KBR, Sydney

Richard was part of the structural team providing drafting and technical support to both civil and structural engineers while undertaking his apprenticeship.

A brief list of projects:

- Cowpasture Road including staging, stormwater, drainage pits and noise walls for RMS
- Auburn Maintenance Facility for Reliance Rail, included the detail design drawings for the maintenance building, underfloor wheel profiling plant and train wash plant facility
- Cronulla Line Duplication and Turnback project for RailCorp, included detail design drawings for stations and pedestrian bridge upgrades
- The Southern Regional Water Pipeline project in SE Queensland included balance tanks at North Beaudesert and Stapylton, the reservoir at Molendinar as well as water quality buildings and service pits for LinkWater
- Homebush substation Sydney, upgrade of the existing facility for AusGrid.
- City North substation Sydney, upgrade of the existing facility for AusGrid.
- Ranger Mine proposed mine infrastructure expansion for ERA.