

## Introducing

### Matthew Gay

**Position**

Associate Senior Engineer

**Professional Qualifications**

B.E. (Hons) University of Newcastle  
(Civil Engineering)



## Summary of Experience

Matthew has over ten years of Structural Engineering experience and has been involved in a number of major projects in the Hunter and surrounding regions. Through these projects he has gained extensive experience in conceptual and detailed structural analysis and design, construction methodology and site works.

Matthews involvement in all key stages of major projects, from development to delivery, allows him to deliver integrated and fully coordinated structural engineering solutions to the client.

Matthew has worked in design and construction across a number of sectors including industrial, commercial, residential, rail, road, temporary works, mining and electrical infrastructure.

## Professional Experience

**2016 – Present**

Associate Senior Engineer  
*MPC Consulting Engineers Pty Limited*

**2013 – Present**

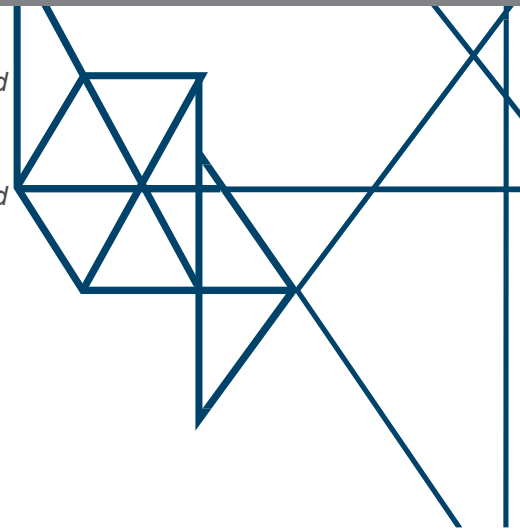
Senior Structural Engineer  
*MPC Consulting Engineers Pty Limited*

**2009 – 2012**

Structural Engineer  
*Robert Bird Group Pty Ltd*

**2007 – 2009**

Graduate Engineer  
*Robert Bird Group Pty Ltd*



Examples of projects for which Matthew has provided design and management expertise include:

## Commercial and Residential Projects

- 1. Cyclone Yasi Inspections – Far North Qld**  
Inspection and reporting of structural elements of the properties that had undergone damage during the Cyclone Yasi event in North Queensland in 2011.
- 2. Coles Retail Development, Port Macquarie**  
Structural design team leader managing the delivery of a new Coles supermarket, specialty shops and car park. The project includes a two-storey commercial development with a basement car park, retail level and roof top car park.
- 3. Newcastle Hospital Site – MIRVAC, Newcastle Beach**  
Detailed design and site construction phase engineering of three tower buildings over a double basement car park. Towers one and two comprise of a six and eight-storey residential building respectively with commercial space at ground level. The third tower is a sixteen-storey building with combined hotel accommodation and private residential apartments.
- 4. Residential Developments, Hunter Region – New South Wales**  
Projects include both the conceptual and detailed design of new and the assessment/upgrade for extensions to residential properties of various private clients.

## Industrial Projects

- 1. Noamundi Train Loader (TLO) Site – Schenck Process, India**  
Structural design of a coal train loading facility and bulk solid containers (surge bin and weigh bin) for discharge loads for the specific bulk material.

## Health Projects

- 1. Mater Hospital Redevelopment, Newcastle – New South Wales**  
Detailed design of concrete and steelwork elements for the \$150 million hospital redevelopment project involving extensive coordination and reconfiguration of existing structure to maintain hospital operations during the delivery program. Works included a new emergency and extensive care unit, operating theatres, coronary care unit, 3 new wards, chemotherapy and radiation bunkers, and expansion of mental health facilities and cancer services.
- 2. Ourimbah Exercise Science Facility – New South Wales**  
Detailed design and site phase inspections for the two science buildings. Both buildings are two-storey and the larger of the two incorporates a 100 metre sprint track to be used by the client's researchers.

## Road and Temporary Works Projects

### 1. **Sapphire to Woolgoolga Highway Upgrade Temporary Works**

Temporary works design package involved the design of formwork, lifting beams, scaffolding, walkway platforms, hoardings and fall restraint as well as analysis of construction methodologies for bridge structures. Design of Sheet piling, site specific steelwork arrangements and earthworks for the staged installation of numerous culverts and fauna crossings.

### 2. **Various Scaffold Projects**

Detailed design for a large range of scaffold systems for use in major construction. These include suspended platforms and scaffold for Port Authority conveyor maintenance, RTA bridge maintenance and lattice tower refurbishment.

### 3. **Upper Hunter Valley Alliance**

Detailed design and construction phase inspections of temporary formwork systems for use in construction. These include proprietary formwork and propping systems for culvert construction and installation in rail refurbishment projects in the Hunter Valley.