

Forge Architecture  
Crafting elegant solutions

**FORGE**



# Forge Architecture

## Crafting elegant solutions

Forge Architecture specialises in making elegant and efficient solutions to complex building problems. We augment the power of computational design with artistry and strong technical experience to craft, inform and optimise both design and delivery.

Through its Director Alex Leese, Forge can offer extensive experience in the delivery of architectural projects from concept design and brief establishment, through detailed design and documentation to management of the projects on site.

Over the last 15 years Alex has held Associate positions at Hassell and Cox Architecture and a Project Leader role at Buchan as well as a Design Manager role at Cockram / Icon Construction and Consultancy Roles with the John Holland Group. This has given experience in Sports, Transport, Education, Health, Public Architecture, Retail and Defence.

Alex has held leading roles in teams that have delivered a number of high profile and successful projects in Queensland and overseas. Underlying all of these is the innovative use of technology and the integration of structure to create sculptural forms from rational elements, more often than not, with value for money a strong factor. The Architectural and Structural industry has recognised this commitment to excellence in design through the awards these buildings have won both in Queensland and through the World Architecture Forum. More importantly however is the relationships developed with the clients and users whilst realising their places for work, study and entertainment.

## FORGE

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# Consultancy Services

Forge can deliver consultancy services in a number of areas in the AEC sector and aims to bring the benefits of a broad experience and skill set to each specific role.

## Architectural

Forge is able to offer clients experience in the design and delivery of architectural projects with the benefit of design management experience in construction. Underpinning this is a creative and innovative approach to problem solving and a user driven design philosophy that is best suited to delivering:

- Commercial including retail development
- Public buildings and structures
- Sports and hospitality

## Design Management

Forge provides design management consultancy for whole projects or specific design packages within a large design management team. Where possible, Forge will bring a focus on digital management and coordination techniques to delivery the best outcomes for both design and construction. This can include managing a BIM process or working within an existing BIM framework. Forge has a high level of experience in the sports sector and a strong grounding in developing complex designs in other sectors such as Health / Defence / Public Architecture.

## Digital Engineering

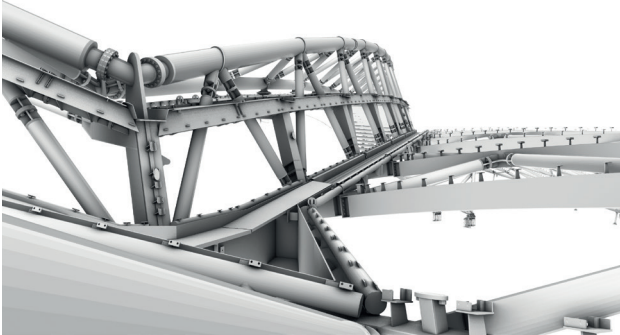
Forge provides consultancy services to architectural and structural practices, or specialist subcontractors, to either assist in developing computational design and digital engineering capabilities, or to lead design packages using these work flows. Forge places innovation at the heart of this and can adapt to either providing strong aesthetic solutions through form finding, or developing strong efficiency and collaboration processes to stream line delivery.

Forge can assist in developing digital fabrication processes involving complex geometry or adoption of specific fabrication techniques.

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# Experience

## Sports / Public Architecture – sculptural facades and roofs



### Sydney Football Stadium

**Forge Architecture** for MakMax Australia

Detailed design of fabric roof systems and secondary steel using computational techniques to manage complex geometry and translation from pre-cambered to design state conditions. Delivery of workshop geometry into the final workshop model.



### Sydney Football Stadium

**Forge Architecture** for John Holland Group

Design Manager role for the development of the stadium facade package with design and construct subcontractor Permasteelisa including structural and architectural interfaces. Utilising BIM360 and Revizto environments for digital issue resolution.



### National Rugby Training Centre

**Forge Architecture** for BuildCorp

Design Manager role from project award to design finalisation and Building Approval. Designed by Blight Rayner, the \$28m facility includes a rugby orientated training facility and a spectator stand covered by an elegant cantilever roof form.



### Canterbury Mixed Use Arena

**Forge Architecture** for Mott MacDonald

Roof form generation and primary structure model from concept stage through to design development built through a bespoke computational code that allowed many option to be analysed and efficiently delivered.

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## Adelaide Tennis Centre

**Forge Architecture** for MakMax

Design Development and detailed modelling for the roof finishes, fascias and rainwater systems including coordination with the lighting fixtures. The dia-grid steel structure spans a show court and is covered with a PTFE membrane.



## Queensland Country Bank Stadium

**Alex Leese** at Cox Architecture

Lead architect for the \$250m project from securing the national competition to delivery of earlyworks. Developed the iconic structural roof form with ARUP using computational techniques written to balance aesthetic fluency with functional optimisation.



## Anna Meares Velodrome Brisbane

**Alex Leese** at Cox Architecture

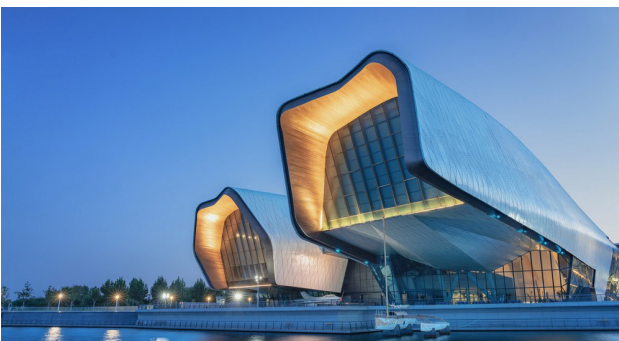
Project architect from concept design through to completion for \$50m indoor cycling facility. Developed the dynamic fabric facade and optimised the saddle shaped roof structure which spans over 100m in both directions.



## Jakarta International Velodrome

**Alex Leese** at Cox Architecture

Project architect to design development and handover to local architect. Roof and Facade structural solution developed with Mott MacDonald and re-uses box framing from temporary structures to create a dynamic velodrome for the Asian Games.



## National Maritime Museum of China

**Alex Leese** at Cox Architecture

Facade and structure lead for the development of 80,000 sqm of gallery space housed in a free form shell. Developed the complex structure and facade with ARUP to deliver a dramatic 28m cantilever over the bay wrapped seamlessly in the shell.

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