

LIAM O'HEHIR

BE MIEAust IRATA Level 1

Managing Director

Building Diagnostic & Remedial Engineer

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Liam is a Sydney based building diagnostic and remedial engineer with 17 years design and construction experience. Liam evaluates, investigates, solves and designs remedial works for structural and facade deficiencies to both new and existing properties. Liam routinely plans and conducts commercial, institutional and residential facade inspections and investigations from elevated work platforms, building maintenance units and industrial rope access. Liam efficiently guides, plans and coordinates engineers and subconsultants. He authors technical reports and design specifications for various multinational engineering firms, property management firms and specialist consultancy and advisory firms.

EXPERTISE OFFERED

⊕ Remedial engineering	⊕ Technical due diligence	⊕ Procurement
⊕ Building diagnostics	⊕ Estimating	⊕ High-rise
⊕ Consulting	⊕ Expert witness	⊕ Feasibility studies
⊕ Diagnosis	⊕ Proposal writing	⊕ Project control
⊕ Design	⊕ Structural engineering	⊕ Value engineering
⊕ Technical writing	⊕ Materials	⊕ Negotiations
⊕ Project management	⊕ Inspection	⊕ Business development
⊕ Contract management	⊕ Building facades	⊕ Clients

RECENT CAREER SNAPSHOT

Managing Director: Shield Consult, 2018 – present

Project Manager and Estimator: Preservation Technologies (Sydney), 2015 – 2018

Principal Engineer: Arcadis / Hyder Consulting (Australia), 2013 – 2015

Leader – Building Diagnostics Team: Arup (Australia, India), 2010 – 2013

Senior Engineer: Aurecon / Connell Wagner (Australia, Singapore, New Zealand), 2008 – 2010

PROJECT EXAMPLES & EXPERIENCE

- ❖ **Commercial & Retail Assets:** Confidential technical due diligence processes (facades, roofs, structures) to assist clients with their asset transactions across Australia.
- ❖ **Aluminium Composite Panelling:** Aged care and retail shopping centres - confidential site assessments and sampling procedures for multinational engineering consultancy firms.
- ❖ **Australian Unity Private Hospitals:** Technical assessments, defect diagnosis, design documentation and tender processes for specialist remedial roof waterproofing projects.
- ❖ **UNSW Clancy Auditorium:** Tendering, estimating, negotiation and project management of specialist copper roof rectification works and hydraulic modifications.
- ❖ **64 Castlereagh Street, Sydney:** Operational commercial heritage building - management of a major structural strengthening and waterproofing remediation project.
- ❖ **Distillery Hill, Quarry and Jones Street Terraces, Pyrmont:** Two 18 storey residential towers and low-lying terraces - estimating and project management of major facade remediation and coating projects.



- ❖ **1 Innovation Road, Macquarie Park:** Operating commercial property - tendering, estimating, negotiation and project management of facade rectification works.
- ❖ **New Parliament House, Canberra:** Completed a comprehensive two-month facade inspection of the precast, off-form concrete, marble and granite finishes. Authored a facade and finishes condition report.
- ❖ **Stockland Building Portfolio, Australia:** Coordination of 34 commercial/industrial building facade inspections. Authoring of inspection reports and the allocation of scheduled risk mitigation strategies.
- ❖ **Equity Plaza, Singapore:** Commercial high-rise facade inspection and condition report concentrating on water penetration issues and dimension stone cladding.
- ❖ **Grand Reef, Dee Why, Sydney:** Twin tower residential development - inspection, investigation and expert witness report on extensive building facade and waterproofing defects. Provision of expert witness services through expert conclave and Supreme Court proceedings.
- ❖ **Blues Point Tower, McMahon's Point, Sydney:** 28 storey heritage listed residential tower - facade inspection and repair options study, including service life forecasting, technical specification and tender for facade maintenance works.
- ❖ **Transpower House, Wellington, New Zealand:** Heritage listed curtainwall - facade inspection and condition report, including service life forecasting for the owners.
- ❖ **C1 Tower, Christchurch, New Zealand:** Facade due diligence document review and rope access facade inspection of a new mixed-use tower, prior to completion.
- ❖ **High Court of Australia, Canberra:** Waterproofing consultancy services provided to head contractor carrying out major refurbishment of exterior balconies and terraces throughout the complex.
- ❖ **National Portrait Gallery, Canberra:** Technical assessment and solutions for addressing performance issues with a challenging long-span roofing system during its construction.
- ❖ **Carlton Hotel, Singapore:** Comprehensive granite facade cladding inspection, diagnosis and technical report on rectification approaches.
- ❖ **Transport House, Sydney:** Landmark heritage listed building - design, tender and technical inspections of an insulated roof waterproofing system.
- ❖ **Treasury Building, Canberra:** Industrial rope access facade inspection and condition report, followed by facade maintenance specification.
- ❖ **Royal Australian Mint, Canberra:** Industrial rope access facade inspection and condition report, followed by facade maintenance specification.
- ❖ **Dr Chau Chak Wing Building, Frasers Broadway & 'ARK':** Proposed commercial and residential high-rise buildings - implemented studies for building facade access options during their design.
- ❖ **Pfizer Headquarters, Ermington, Sydney:** Stone facade cladding failure report and rectification recommendation.
- ❖ **Australian Technology Park, Redfern:** New commercial building - roof water penetration investigations and technical report.
- ❖ **138 Barcom Avenue, Darlinghurst:** Water penetration investigations and technical waterproofing defects report, followed by negotiations with insurer to secure funds for defect rectification works.
- ❖ **Citi Centre, 2 Park Street, Sydney:** Facade inspection and report, negotiations and supervision of facade defects rectification works.
- ❖ **Australia Square, Sydney:** Plaza building - concourse vertical surfaces inspection report and specification for repair works. Industrial rope access facade inspection and condition report.
- ❖ **ARTC Rail Asset Inspections:** Inspection, condition report and data log of individual underbridges, overbridges, culverts of rail infrastructure, located between Dubbo and Cobar in rural NSW.
- ❖ **Brisbane Transit Centre, Brisbane:** Industrial rope access facade inspection, structure and facade due diligence report, technical specification, tender and supervision of facade maintenance works.
- ❖ **Holiday Inn, Brisbane:** Facade inspection report, technical specification and superintendence of facade maintenance works.



- ❖ **Kia Motors Showroom & Rural Fire Services HQ, Homebush:** Report on cause and rectification alternatives to failed toughened glass shopfront.
- ❖ **Akuna Bay Marina Facility, Akuna Bay:** Commercial marina - Implementation of risk mitigation and monitoring scheme for dilapidated reinforced concrete structure.
- ❖ **33-37 Ocean Street, Bondi:** Inspection, diagnosis, facade condition report, technical specification and superintendence of facade rectification project.
- ❖ **2 Market Street, 51 Druitt St, 99 Walker Street, 141 Walker Street, 9 Hunter Street & 7 Macquarie Place, Sydney:** Implementation of a structural silicone glazing monitoring process, including inspections, materials testing and technical reporting.
- ❖ **365 Miller Street, Cammeray:** Fire damaged basement carpark - investigation, specification, contract administration and superintendence of structural rectification works to the reinforced concrete structure.
- ❖ **Australian Embassy, Beijing PRC:** Site inspection and design/documentation of various remedial works throughout the embassy complex.
- ❖ **Grafton Bond Building, Millers Point:** Superintendence, project and contract management of heritage facade maintenance works.
- ❖ **Scots Church, Sydney:** Facade inspection and documentation for heritage sandstone rectification works.
- ❖ **1 York Street, Sydney:** Supervision of concrete repairs and recoating work to precast commercial tower.
- ❖ **White Bay Chimneys, Sydney:** Internal and external inspection by rope access.

EDUCATION

Bachelor of Engineering (Civil) – University of Sydney

CERTIFICATIONS

IRATA Level 1 Rope Access Technician (1,700+ Hours)
Height Safety Worker
Asbestos Awareness

PROFESSIONAL ASSOCIATIONS

Member of the Institute of Engineers Australia – Leadership & Management College
Member of the Institute of Engineers Australia – Structural College
Board Member of the Australasian Concrete Repair Association, 2015-2016

PUBLICATIONS

Thesis 'Human Impacts Relating to Safety Glass', 2000