



HALLIWELL

OLIVER KELLY

BE MEngSc Eur Ing CEng FIEI FIEAust CPEng NER

Principal Forensic Engineer – Structural

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SPECIALTIES

- Structural Engineering Design and Documentation
- Forensic Investigations relating to the Built Environment
- Expert Reporting
- Legal Testimony
- Team and Project Leadership
- Leadership in Business Growth & Technical Excellence

BIOGRAPHY

With over 25 years of Structural and Civil Engineering experience across the UK, Ireland, the Middle East, and Australia, Oliver is a Chartered Professional Engineer with an extensive background in consulting and forensic engineering. His portfolio spans diverse projects, including the design and documentation of high-rise residential and office buildings, commercial retail centres, industrial facilities, and public structures. Notable projects include Yarra Edge Tower 9, 385 Burke Street South Tower, Lansdowne Road Stadium, and the Downland Gridshell. Oliver's career reflects a seamless blend of technical expertise and leadership.

Since 2011, Oliver has specialised in forensic engineering, gaining extensive experience in assessing building damage and defects, conducting root cause analysis, designing remediation works, and delivering expert witness services. From 2018 to 2025, he served as National Forensic Manager for FMG Engineering, where he led a team of around 30 engineers providing forensic engineering services to insurers, loss adjusters, and legal professionals across Australia. His leadership was instrumental in implementing robust systems and procedures to ensure the accuracy and timeliness of technical outputs, earning the business recognition as an industry leader.

Oliver also organized responses to major catastrophic events such as the 2021 Wood Point Earthquake, the 2022 Victorian Floods, and the 2023 River Murray SA Floods. For these catastrophic events, his team delivered hundreds of assessments and reports within tight deadlines without compromising on quality.

Passionate about fostering collaboration, innovation, and professional growth, Oliver excels at building high-performing teams that thrive on excellence and mutual respect. His commitment to exceeding client expectations, combined with his analytical rigour and leadership, ensures the delivery of precise and impactful results. Today, Oliver continues to merge his technical acumen with strategic oversight as part of Halliwell.

QUALIFICATIONS

- Bachelor of Engineering (1st Class Honours), University College Dublin, 1993-1997
- Master of Engineering Science, University College Dublin, 1997-1999

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INDUSTRY MEMBERSHIPS

- Chartered Engineer (CEng), Fellow of Engineers Ireland (FIEI)
- Registered Engineer, European Federation of National Engineering Associations (Eur Ing)
- Chartered Professional Engineer (CPEng), Fellow of Engineers Australia (FIEAust)
- Member, College of Civil Engineers, Engineers Australia
- Member, College of Structural Engineers, Engineers Australia
- National Engineers Register (NER)
- APEC Engineer IntPE(Aus)
- Professional Engineer Register (Victoria), Areas: Civil, Structural; PE0002090
- Register Professional Engineer of Queensland, Areas: Civil, Structural; RPEQ 18864

PROFESSIONAL EXPERIENCE

- Koukourou Pty Ltd t/a FMG Engineering, 2016 – 2024, Board Director
- FMG Engineering, 2011 – 2024, National Forensic Manger
- WSP (IrwinConsult), 2008 – 2011, Senior Structural Engineer
- Buro Happold, 1999 – 2008, Associate

ACHIEVEMENTS AND NOTABLE ASSIGNMENTS

- **Investigation of Building Site Accident, Melbourne (2022 – 2025)**
Expert witness services for WorkSafe Victoria following a major incident at a residential construction site run by a prominent home building firm. The investigation identified inadequacies in the timber framing, site controls, and the delivery process for roof trusses.
- **Roof Collapse over Bowling Club, Melbourne (2021 – 2022)**
Design and sequencing of the immediate make safe works following the collapse of a 1,800m² long-span tension fabric roof over bowling lawns during a storm in October 2021. The make safe works had to minimise the disruption to other parts of the facility while preserving the evidence for future investigation. The investigation included 3D capture of the failed structure, detailed FEA and design checks, laboratory testing of the steel and welds, and footing exposures. The resulting expert report was used for insurance and recovery purposes.
- **Assessment of Misalignment of Steel Section Rolling Plant, Australia (2020 – 2024)**
Engineering investigation and expert witness services regarding a substantial loss of production due to misalignments in a cold-formed steel section rolling plant, housed within a 6,800m² industrial building. in Ravenhall, Australia. The 128m long production line had a very low tolerances for misalignment between each stage along the production line. The engineering matters of concern included inadequacies in the preparation, installation and supervision of the subgrade and backfilling/sub-base, inadequacies in structural engineering design of the industrial slab and plinths, the suitability of the selected structural design, and the likely impact of vibrations from the plant on the measured differential movement of the slab.

- **The Nicholson, Nicholson Street, Melbourne (2009 –2010)**

Structural team lead for design of this residential development comprising a combination of private and nation building apartments (198 total), with car parking and retail outlets, including a 1000m² supermarket tenancy. A unique feature of this 8-storey building is the use of approximately 350 prefabricated modules to construct the apartments. The modules were constructed and fitted out in a factory and then transported and installed on site. The prefabricated modules are supported on a reinforced concrete base structure that forms the three lower floors and tied to precast concrete cores for lateral stability.

- **Yarra Edge Tower 9, Melbourne (2009 - 2010)**

Structural engineering design of a 47-storey tower with a podium comprising 9 storeys of apartment, and 5 storeys of split level car park and a landscaped roof garden. Particular challenges on the project included assessing and limiting the torsional accelerations of the tower under wind loading, the design of a 900mm thick transfer slab at level 33, and assessing the impacts on the nearby sea wall from soil volume changes due piling activity in the underlying 20m thick band of Coode Island silt.

- **Lansdowne Road Stadium, Ireland (2006 - 2008)**

Redevelopment of an existing stadium with a new 50,000 seater stadium within a complex city centre site. Team lead in the design of the 2,500 tonne long span (203m x 190m) steelwork roof structure and in the delivery of demolition and rail corridor package. The latter involved the demolition of an existing stand over a live railway, construction of a 124m long precast concrete covered way over the railway artery, construction of a tunnel underneath the railway, and reconfiguration of the overhead electrification system, while minimising rail closures.

- Engineer of the Year Award, 2005, runner-up, Institution of Engineers of Ireland (IEI), 2005
- Bill Curtin Medal, 2004, Institution of Civil Engineers (UK)
- Derrington Construction Diploma, 2003, Institution of Structural Engineers (UK)
- Happold Scholar, 1997 - 1999
- Winner of the British Construction Industry Award 2002: Small Project Category for the Weald and Downland Museum project