

Kevin Legenza, CPEng, PEInt(AUS), MIEAust, NPER

Principal



Summary

Kevin Legenza has more than 15 years of structural design, project management and research experience. Since joining Thornton Tomasetti in 2011, Kevin has been heavily involved in the design of signature sporting venues and complex specialty structures. His project portfolio also includes numerous residential, commercial and mixed-use high-rise buildings as well as long span pedestrian bridges. Kevin has overseen all phases of project delivery, from conceptual design through construction administration, and has worked in positions from structural designer to multidisciplinary project manager / integrator. He brings this diverse background to projects and focuses on teamwork and a collaborative design process across all of the AEC disciplines to achieve the results that clients and stakeholders expect.

Areas of Technical Expertise Include

- Long Span Structures
- Special Structures
- High Rise Design

Education

- M.S., Civil Engineering, 2004, University of Kansas
- B.S., Architecture and Civil Engineering, 2002, University of Kansas
- Graduate Direct Exchange Scholar, Structural Engineering, 2002-2003, Swiss Federal Institute of Technology
- Ewart Traveling Scholar, Architecture, 2000-2001, University of Stuttgart

Registrations

- Chartered Professional Engineer, Structural Engineering - Australia
- International Professional Engineer, Structural Engineering - APEC

Select Project Experience

Litigation

Dubai Autodrome Feature Stair Vibrations, Dubai. Forensic Engineering Services were provided for the Dubai Autodrome Corporation. The project included forensic investigation, analysis and remedial engineering for occupant comfort of feature stairs at the Dubai Autodrome main grandstand.

Dubai Automart Canopies Collapse, Dubai. Forensic Engineering Services were provided for the Dubai Municipality. The project included cause and origin investigation and remedial engineering for collapse of several storefront canopies at the Dubai Automart complex during a rain event.

GCAA Communications Masts Vibrations, Abu Dhabi. Forensic Engineering services were provided for the Abu Dhabi Airport Authority. The project included cause and origin investigation and fatigue analysis for Telecommunications Towers undergoing large lateral displacement during normal operating wind speeds.

Medici Apartments Concrete Cracking and Water Intrusion, Sunshine Coast, Australia. Forensic Engineering services were provided for the council of Insurer or Engineer of Record. The project included cause and origin investigation, analysis and remedial engineering of a 15 story luxury beachfront apartment complex at Golden Beach in the Sunshine Coast of Australia.

San Diego International Airport - Federal Inspection Station, San Diego, CA. Forensic investigation during construction of a new customs facility.

San Diego International Airport - FIS Art Investigation, San Diego, CA. Forensic Engineering services were provided for the San Diego Airport Authority. The project included cause and origin investigation and remedial engineering for defects found in glass art installation which separated secure air side of immigration hall from public unsecure zones in the airport.

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Toowoomba Grammar School Aquatics Center, Toowoomba, Australia. Professional Expert Opinion services were provided for the council of Insurer of Engineer of Record. The project included the structural evaluation of a grade school aquatics center in Toowoomba, Queensland Australia.

Townsville Airport - Australian Air Force Helicopter Hangers, Townsville, Australia. Forensic Engineering services were provided for the Townsville Airport Authority. The project included cause and origin investigation and structural evaluation of Helicopter Hangers leased by the Australian Air Force.

Papers, Presentations and Publications

- "Baku's New Crown Jewel," Civil Engineering, January 2016, Author
- "Kurilpa – The World's First Tensegrity Bridge!" Engineers Australia, Brisbane Division, Innovation Sub-Committee Technical Presentation, Brisbane, AUS, June 2011, Presenter
- "The Evolution of the Pedestrian Bridge," Stålbbyggnad, NR04 2010, Author
- "Stainless 101: Understanding Stainless Steel," Engineers Australia, Sydney Division, and Australian Stainless Steel Development Association (ASSDA), Sydney, AUS, December 2010, Presenter
- "The Stainless Edge," Australian Institute of Architects, Queensland Chapter, South Brisbane, AUS, September 2010, Co-presenter
- "Twisting Steel and Bending the Imagination," STRUCTURE magazine, November 2007, Author
- "Maintaining Historical Bridges: A Comparison: USA," 2004, Author

Contact

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* Denotes work performed with previous employer.