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# Frank Cerra—

Managing Director

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## Experience Overview—

Over thirty years experience in design & documentation of a diverse range of residential, commercial, industrial, public & civil structures. Concept, schematic & design development of cost effective building and civil structures, including complex challenging structures.

Technical leadership and management of design teams for large building & civil structures for a wide range of clients.

International leader in concepts and value engineering of towers in many locations worldwide.

Corporate responsibility in Director role of BG&E Pty Limited since 2005 and now Managing Director for the BG&E Group.

## Structural Engineering

Involved in a very wide range of building projects including major high-rise office & residential buildings, major commercial & retail centres, hotels, university & school campus buildings and public buildings including hospitals.

Industry leader in structural design and tall complex structures including background in tall buildings over the last 25 years with detailed involvement in the Middle East over the last 15 years.

Involvement includes many different roles;

- Concept development.
- Development of alternative schemes.
- Review of hundreds of Middle East high rise projects in a value engineering role for developers and contractors.
- Value engineering and peer review role for international projects in UK, India, Canada, Middle East and Australia.
- Detailed design and documentation role.
- Expert advice on complex projects.

## Position—

Managing Director, BG&E Group

## Qualifications—

BE(Civil) Hons1, FIEAust., CPEng, NPER

Bachelor of Engineering, with First Class Honours

Fellow Member of The Institution of Engineers, Australia

National Professional Engineers Register

Member of the College of Structural and Civil Engineers

Chartered Professional Engineer (No. 407601)

Member of the Association of Consulting Structural Engineers of NSW

Member of the Board of Professional Engineers Queensland (No. 7328)

Registered Building Practitioner with the Building Practitioners Board of Victoria (NO. EC23108)

## Career Milestones—

2014 / Appointed Managing Director

2011 / Appointed CEO of BG&E Group

2007 / Elected Fellow of Engineers Australia

2005 / Appointed Director of BG&E

2000 / Appointed Associate of BG&E

1995 / Senior Structural Engineer of BG&E

1990 / Senior Structural Engineer, Aurecon

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## Project Experience—

- Marriott Marquis Hotel (Emirates Park Hotel) - Dubai
- The Index Building - Dubai
- Vision Tower, Dubai
- The Burj Residences, Phases I, II & III - Dubai
- City of Lights, Abu Dhabi (Now Addax Tower)
- 200 George Street, Sydney
- Dubai Marina, 7WX Site - Dubai
- Jumeirah Beach Residences - Dubai
- Al Jaber - Dubai
- Burj Tower - Dubai
- Inmark Tower - Sydney
- Chicago Spire - Chicago
- The Pinnacle - London
- Burj Tower - Dubai
- Castle House - London
- Kingdom Tower
- Parramatta Residential Development - Sydney
- Rydges Hotel - Sydney
- The Peak - Sydney
- “The Elizabeth” – Pyrmont

## Detailed Project Experience—

### Structural Engineering

#### **Marriott Marquis Hotel (Emirates Park Hotel), Dubai**

Project Director and technical structural Director in charge of two 350m high towers including 80 levels of 6 star hotel for Emirates Airlines.

#### **The Index Building, Dubai**

Project Director and technical structural Director involved in technical and management of concept design, design and documentation for 80 storey structure, 330m high, and approximately 300,000m<sup>2</sup>.

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## ***Vision Tower, Dubai***

Project Director and technical Director in charge for 260m tall 65 level very slender commercial tower.

## ***The Burj Residences, Phases I, II & III, Dubai***

Design Project Leader for design and documentation for 15 residential towers varying from 30-45 levels.

## ***AMP Tower, Sydney***

Peer review on AMP tower in Circular Quay.

## ***City of Lights, Abu Dhabi (Now Addax Tower)***

Project Director and technical structural Director for 65 Level Commercial Tower standing 260m tall with 2600m<sup>2</sup> floor plates.

## ***200 George Street, Sydney***

Peer review of 45 level concrete office tower in CBD.

## ***Dubai Marina, 7WX Site, Dubai***

Design Project Leader for design and documentation for 6 residential towers varying from 30-45 levels

## ***Jumeirah Beach Residences, Dubai***

Involved in schematic design and documentation for 40 residential towers varying from 30-50 levels.

## ***Al Jaber, Dubai***

Involved in design and documentation for 45 level tower consisting of office, hotel and carpark.

## ***Burj Tower, Dubai***

Assisted Multiplex with their tender bid with alternative structural solutions to increase speed and decrease construction cost for world's tallest building at 750m in height.

## ***Inmark Tower, Sydney***

Design of 34 level residential structure over twin railway tunnels including vibration isolated building over and in-between railway tunnels.

## ***Chicago Spire, Chicago***

Peer review for 600m tall structure by Calatrava in Chicago. Structure included circular core with steel outrigger levels and entry transfers.

## ***The Pinnacle, London***

Involvement in the peer review of 46 level steel structure tower in London.

## ***Burj Tower, Dubai***

Assisted Multiplex with their tender bid with alternative structural solutions to increase speed and decrease construction cost for the "world's tallest building" at over 750 metres in height.

## ***Castle House, London***

Peer review of 40 storey residential structure in London, highlighting significant construction cost savings.

## ***Kingdom Tower, Jeddah***

Involved in the process of selecting the preferred architectural and structural concept for the client.

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## ***UTS Student Accommodation, Ultimo***

Project direct for 20 level student accommodation over existing 6 level University campus.

## ***ANU Student Accommodation, Canberra***

Project Direct for 6 level building constructed from steel modular units, container type for student accommodation.

## ***“The Horizon”, Darlinghurst***

Dynamic wind analysis and core design for 46 level residential tower including the use of latest technology with 100 MPa concrete. Design of lateral system for seismic and wind loading in low rise 8 level structure.

## ***Parramatta Residential Development, Sydney***

Concept design for 25 storey towers above 6 level carpark below the Parramatta river water level.

## ***Rydges Hotel, Sydney***

Dynamic wind and earthquake analysis for 36 level hotel structure. Design of lateral resisting system.

## ***The Peak, Sydney***

Involved in design of major rectification works of existing structure to suit new Client requirements.

## ***Regatta Wharf, Pyrmont***

Project Leader for 4 residential towers and carpark under the Sydney Harbour water level.

## ***Edith Cowan University, Perth***

Project Leader for university administration and academic buildings. Project includes colonnade with tapered steel columns cantilevering 40m and steel beams cantilevering 30m.

## ***Aged Person, Leichhardt***

Project Leader for 4 level building of composite structure including reinforced concrete, timber and steel construction.

## ***Pittwater Place Shopping Centre, Mona Vale***

Project Leader for 3 level 30,000m<sup>2</sup> project involving carpark under water table, retail and commercial areas.

## ***Carillon Avenue Student Village at Sydney University, Camperdown***

Project Leader for student housing complex ranging from 3 to 12 level construction consisting of precast, masonry and timber construction.

## ***Cielo Apartments, Woolloomooloo***

Project Leader for 12 level building including 3 levels below ground on a water charged sandy site, built utilising top down construction.

## ***Rosebery Office Development, Sydney***

Project Leader for 4 storey 11800m<sup>2</sup> office complex, involving post tensioned two way flat plates and structural steel roof and plantroom areas. Stage 2 includes refurbishment of existing adjacent buildings including significant structural alterations.

## ***Regatta Wharf Site A, Pyrmont***

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Project Engineer for 4 medium rise residential towers ranging up to 15 levels each with 3 carpark levels below the Sydney Harbour water level including reinforced and stressed floors and transfers.

***“The Elizabeth”, Pyrmont***

Design of floor structures for 15 level residential building.