



**Mr Kenneth H. Y. Chan**  
**MSc BEng DIC MICE MHKIE RPE**  
**(Civil)**  
**Geotechnical Engineer**

### Key Experience

Kenneth Chan has more than 8 years post-graduate civil and geotechnical experience mostly with consulting engineering firms with an emphasis on the design and supervision of deep excavations including propped walls and cut-and-cover tunnels using finite element software. Kenneth has also acted as a Resident Engineer on several large construction contracts gaining experience in construction of large diameter bored piles, pre-bored H-piles, mini-piles, diaphragm walls, sheet pile walls, pipe-pile walls, bored pile walls, grouting works, pumping tests as well as ground investigation. Several of his major projects have involved a detailed review of geotechnical instrumentation and assessing the impact of construction works on the surrounding environment. Kenneth has also undertaken feasibility studies and detailed slope studies including the upgrading of slopes using prescriptive and conventional design methods. Kenneth became a Chartered Engineer in 2004 and has worked on Government and private client projects and prepared a number of design submissions for GEO and BD.

### Career Summary

#### June 2005 – present: Geotechnical Engineer, GCG (Asia) Ltd

- KCRC Kowloon Southern Link Contract No. KDB300 & 400 (Mar 2006 – Present)  
Resident Engineer responsible for interpretation of all geotechnical monitoring data, carrying out independent review of the design principles and the construction methods for cut and cover tunnels and providing geotechnical engineering advice to the contractor on issues such as the effectiveness of the proposed grouting works and dewatering system using finite element analysis
- Contract No. DC/2006/10 – Sheung Wan Stormwater Pumping Station (Jul 2006 – Dec 2006)  
Responsible for carrying out the design of the dewatering system for the bottom-up excavation for the sub-structure of the proposed stormwater pumping station using finite element analysis program SEEP/W.
- Singapore Circle Line Stage 1 – Contract No. 824A, (Feb 2006 – Mar 2006) Responsible for the technical review of the deep excavation re-design for the launching shaft, receiving shaft and escape shaft for major tunnelling contract using numerical modeling program PLAXIS.
- Contract No. DC/2004/06 – Drainage Improvements in North NT, Package A, Phase 1 Construction of Drainage Channels in Ma Wat and North of Hong Lok Yuen, Tai Po (Sep 2005 – Nov 2005)  
Responsible for undertaking numerical analyses using PLAXIS to study the ground deformation due to open shield pipe jacking beneath existing KCRC railway tracks.
- Manjung Power Station Reclamation, Malaysia (Jan 2006 – Feb 2006) Responsible for an independent review of the settlement monitoring data and predicting the likely magnitude of residual ground settlement and differential settlement of structures over the design life of the power station.
- Sartomer Chemical Plant, Xiaohu Island, Nansha, Guangzhou (Oct 2005 – Mar 2006)  
Responsible for an assessment of the settlement monitoring data and predicting future ground settlement based on settlement monitoring data.
- Expansion of Royal Brunei Naval Base (Aug 2005 – Mar 2006)  
Responsible for providing technical advice and supporting calculations for an arbitration associated with a dispute relating to driven piling works at a recently reclaimed site.



#### Geotechnical Consulting Group (Asia) Ltd

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- Contract No. HY/2003/01 Route 8 – Lai Chi Kok Viaduct (Nov 2005 – Dec 2005)  
Responsible for providing technical advice on geotechnical issues to the contractor and carrying out temporary works design associated with the construction of viaducts.
- London Gateway Port (Jul 2005 – Jan 2006)  
Responsible for providing a conceptual scheme for the reclamation and associated bund construction works.
- Contract No. HY/2004/02 Route 8 – East Tsing Yi Viaduct (Jun 2005 – Sep 2005)  
Responsible for providing technical support to the contractor on bored piling works and carrying out numerical analyses using FLAC to study the additional pile settlement due to weathered bands beneath the pile toe.
- Contract No. HY/2003/04 Design and Build Improvement to Castle Peak Road between Ka Loon Tsuen and Siu Lam (Jun 2005 – Jan 2006)  
Responsible for preparing detailed design submissions of the slope upgrading works associated with the proposed road improvement works.
- MTRC Contract No. C5222 Tung Chung Cable Car (Jun 2005 – Oct 2005)  
Responsible for carrying out the natural terrain hazard study and boulder surveys

#### **Oct 1999 – May 2005: Engineer, Ove Arup & Partners Hong Kong Ltd (selected projects)**

- KCRC East Rail Extensions – Sheung Shui to Chau Tau Tunnels - Responsible for detailed design of the geotechnical works for the HK3billion design and build contract including diaphragm wall design for a 20m deep excavation for a station box, multi-propped sheet-piled deep excavation design for the cut and cover approach tunnels, pre-bored H-pile foundation for a footbridge across the rails. This involved finite element analysis to study impact on adjacent structures/utilities due to groundwater seepage
- MTRC Contract No. C5201 Tung Chung Cable Car - Responsible for the project coordination works and the detailed design of car tower foundation, slope stabilization works and the site formation works
- KCRC West Rail Project Contract No. DD200 - Yuen Long Southern PTI - Resident Engineer responsible for the site supervision and coordination of the ground investigation works with complex karst geology and associated instrumentation monitoring works for the foundation design of Yuen Long Public Transport Interchange.
- MTRC Tseung Kwan O Extension – Tseung Kwan O Depot - Responsible for the detailed design of the foundation for Tseung Kwan O Depot located on reclaimed land including review of geotechnical instrumentation monitoring records, geotechnical assessment of as-built bored piles and detailed design of over 400 large diameter bored piles.
- Contract No. SSH346 – Police Headquarters - Resident Engineer responsible for the construction supervision of a 25m deep basement construction in Wanchai, including diaphragm wall installation, temporary pre-bored H-piles installation, grouting works, pumping test, multi-propped bulk excavation, foundation construction.
- No. 2 Queen's Road Central – Cheung Kong Center Development Responsible for the detailed design for a 6-level underground car park including design of diaphragm wall, pipe pile wall, and excavation and lateral support works and review of instrumentation monitoring records. Site supervision on diaphragm wall construction works.

#### **Jun – Aug 1997: Summer Trainee, Gammon Construction Ltd**

- **Route 3 (Country Park Section)**  
Site supervision on civil works between Tai Lam Tunnel Northern Portal and Yuen Long Approach.

#### **Education/Research**

MSc, Soil Mechanics, Imperial College, University of London, 1999  
BEng (1st Class Hons.), The University of Hong Kong, 1998

#### **Professional Qualifications**

Corporate Member of The Hong Kong Institution of Engineers, Civil, 2004  
Corporate Member of The Institution of Civil Engineers, 2004  
Registered Professional Engineer (Civil), 2005



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