

PROFILE

Er. Khoh Tio Ching has 16 years of design and construction experience in various aspect of civil, structural & geotechnical design including structural design, earth retaining system, impact assessment, tunnel design, foundation design, ground improvement, geotechnical parameters interpretation and soil investigation for large scale infrastructures and buildings in Singapore.

Er. Khoh started his career as a geotechnical engineer with Land Transport Authority followed by as a senior role in various engineering consultancy and construction company such as AECOM Singapore, WSP Singapore and Woh Hup. He is also a Professional Engineer (Civil), Specialist Professional Engineer (Geotechnical) and Specialist Professional Engineer (Tunnelling) in Singapore. He involved in various major infrastructure project in Singapore such as MRT project RTS link between Singapore and Malaysia, Thomson East Coast line, Circle Line 6, tunnel project such as Jurong Island-Pioneer Cable Tunnel, PUB NIPEC4 tunnel, Changi Airport Terminal 5. He became a Professional Engineer since Oct 2017 to supervise geotechnical work of similar scale of project such as Singapore Power Cable Tunnel, Changi Airport Terminal 5, LTA North South Corridor, NEA Integrated Waster Manager Facilities. He is currently the Qualified Person (Supervision) for Integrated Waste Management Facilities (IWMF) since 1st Nov 2020 and North South Corridor N103 Contract as Qualified Person (Supervision) (Geotechnical) for supervision since 1st Dec 2022.

He is also currently acting as Principal Consultant to Oskefer Consulting for civil, structural, geotechnical failure analysis.

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CONTACT

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KEY STRENGTHS:

- Civil & Structural Design
- Geotechnical Design
- Construction Supervision & QAQC
- Earth Retaining Stabilizing System (ERSS)
- Cut & Cover Tunnel and Bored Tunnel
- Temporary Work Design and Construction

INDUSTRY EXPERIENCE:

- **Industrial Plant** (IWMF)
- **MRT** (RTS link, TEL, CCL6)
- **Bored Tunnel** (JIPCT, NIPEC4)
- **Airport** (Changi T5)
- **Road Tunnel** (N103)

PROFESSIONAL EXPERIENCE

Jul 2023 – Present

Oskefer Consulting Pte Ltd

**Principal Consultant
(Civil Engineering)**

- Providing forensic engineering, root causes analysis for civil, structural and geotechnical engineering

Jan 2022 – Present

Engineers 717 Pte Ltd

Director

- Providing engineering consultancy services to construction & consultancy company
- As Director, responsible for Engineers 717 Pte Ltd business development and strategic operation.

Dec 2022 – Present	Worley Pte Ltd	Qualified Person (Geotechnical)
<ul style="list-style-type: none">Perform as QP(S)(Geo) for underground building work of North South Corridor for N103 contractor under BCA regulations.		
Nov 2020 – Present	BINNIES-AECOM Pte Ltd	Qualified Person (Geotechnical)
<ul style="list-style-type: none">Perform as QP(S) & QP(S)(Geo) for underground building work of IWMF under BCA regulations.Review the design of pile foundations and ERSS work for IWMF project.Liaise with the Engineering Manager and the Project Technical Specialists on the review and approval of design submissions including calculations and drawings.		
Feb 2020 – Nov 2022	Woh Hup (Private) Limited	Principal Engineer
<ul style="list-style-type: none">To provide tender support for Changi East Terminal 5To provide tender support for other various building development.		
Jun 2017 – Jan 2020	WSP Singapore	Project Manager (Geotechnical)
<ul style="list-style-type: none">To provide project management, design management and technical support. to Changi Airport Group (CAG) for the Changi East Development (Terminal 5) of Intra Airside Road Connection (ARC) for a 3km long, 15.5m deep and 33m wide of cut & cover road tunnel.Review geotechnical design submission from detail design consultant for pile design, geotechnical interpretation baseline report (GIBR), ERSS design, temporary structure design, impact assessment, instrumentation, ground improvement work and etc. to ensure that the design is practical, economical and feasible.		
Nov 2011 – Jun 2017	AECOM Singapore	Senior Engineer
<ul style="list-style-type: none">To provide site supervision for Jurong Island Cable Tunnel Project (JIPCT) as Resident EngineerTo provide design and construction support for NIPEC4 (NEWater Infrastructure Plan Extension), which involved the ERSS design, Tunnel design, Face Pressure Design, GIR, and SI planning.To provide technical support for geotechnical engineering for RTS link between Singapore & Malaysia.To provide design and Authority submission of Jurong Island-Pioneer Cable Tunnel (JIPCT) involved Earth Retaining Structure, Tunneling work and 2 storey Equipment Building and Ventilation Building.To provide tender support to Client and carry out tender evaluation for Jurong Island Cable Tunnel (JIPCT) during Tender Period.		
Jul 2009– Jul 2011	Land Transport Authority	Engineer
<ul style="list-style-type: none">Carry out concept design, technical support and design management for feasibility studies on alignment options & cost comparison, impact assessment for structures in the vicinity of proposed alignments for Eastern Region Line (ERL).Carry out concept design, technical support and design management for feasibility studies on alignment options & cost comparison, impact assessment for structures in the vicinity of proposed alignments for Circle Line 6 (CCL6).Planning, manage and coordinate site investigation (SI) contract 1332A, 1332B, 1332C. Assign laboratory tests for soil samples and review SI reports.		

- Manage Thomson Line contract C2101 and review submission documents from consultant for civil engineering issue.
- Conduct feasibility study of 2 car train for LRT.

EDUCATION

Master of Science (Geotechnical)

National University of Singapore, 2014

Bachelor of Engineering (Civil)

Nanyang Technological University, 2009

Diploma in Civil & Structural Engineering

Singapore Polytechnic, 2004

PROFESSIONAL AFFILIATIONS

- Registered Professional Engineer (Civil), Singapore (PE no: 4874)
- Registered Specialist Professional Engineer (Geotechnical), Singapore (PE no: 4874)
- Registered Specialist Professional Engineer (Tunnelling), Singapore (PE no: 4874)
- Technical Assessor for Accreditation of I&M Works (SAC)
- Young Professional in SPRING-IES Civil & Geotechnical Works Technical Committee with BCA and GeoSS