

PROFILE

Oskefer Consulting, headquartered in Singapore, is an engineering consultancy firm specialising in **incident investigation** (including failure analysis, forensic engineering investigation, and root-cause analysis), **risk-based consulting** (such as risk-based design review, inspection, and condition assessment), and **expert witness** services.

Mr Young Jie Yu has 16 years of experience in large-scale infrastructure projects, with special focus on structural and geotechnical engineering.

He started his career as a site engineer with Keller Foundations S.E.A. and spent two years working at construction sites, implementing various ground improvement techniques, including vibro-compaction, stone columns, sand drains, and dynamic compaction, mostly for projects on Jurong Island. Following this, he spent the next phase of his career working in a consultancy environment on underground metro, road and utility tunnel projects in various locations, including Singapore, Hong Kong, Malaysia, and Bangkok, gaining both design and construction experience. In addition, he has gained a broad knowledge of dredging and reclamation work through his work with Dredging International for the construction of Tuas Terminal Phase 1.

At Oskefer Consulting, Mr Young provides specialist structural and geotechnical engineering advisory services, including technical investigation of incidents involving structural and geotechnical failures, root-cause analysis, damage assessment and expert witness services.

Concurrently, he is working as a research officer attached to a government agency in charge of technology and innovation in Malaysia. He carries out strategic reviews of government policies and provides technical input for the agency's consideration.



CONTACT

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KEY STRENGTHS:

- Civil & Structural Design
- Geotechnical Design
- Dredging and Reclamation Works
- Earth Retaining Stabilising System (ERSS)
- Cut & Cover Tunnel and Bored Tunnel
- Ground Improvement Works

INDUSTRY EXPERIENCE:

- **MRT** (TEL, JRL, KVMRT 2, SCL 1108)
- **Bus Depot** (DE168)
- **Airport** (Changi T5)
- **Road Tunnel** (NSC)
- **Port** (Tuas Terminal Phase 1)

PROFESSIONAL EXPERIENCE

Jun 2026 – Present

Oskefer Consulting Pte Ltd

Senior Consultant

- Provide specialist structural and geotechnical forensic engineering services, including technical investigation of structural and geotechnical failures, root-cause analysis, damage assessment, and expert witness services.
- Provide structural and geotechnical engineering expertise to multidisciplinary project teams on major and complex infrastructure projects.

Jun 2023 – Present **Ministry of Science, Technology and Innovation, Malaysia** **Senior Research Officer**

Attached to the Minister's Office to provide strategic review and technical input on policies related to the ministry, including:

- New Energy including Hydrogen and Nuclear Energy
- Space Technology
- Artificial Intelligence
- Biotechnology
- Startup Ecosystem

Mar 2018 – May 2023 **WSP Consultancy Pte Ltd** **Associate (Geotechnical)**

- Lead geotechnical engineer responsible for AC checking of geotechnical works including foundation design and load testing, ERSS submission and ground improvement works.
- DE168 – Advanced Engineering Study for Multi-storey Bus Depots
Assisted the Project Manager in coordinating multidisciplinary team members consisting of Architecture, Civil/Structure, Geotechnical, Mechanical/Electrical, and external consultants providing specialist services on security advice, E-Bus consultation and bus depot equipment.
- Megaspine Tunnels, Changi T5 development
Responsible for the management of underground design and construction aspects of the project including site investigation, ground improvement, foundation and Earth Retaining and Stabilising Structures works.
- Tender support for various potential projects including MRT projects, climate change adaptation measures and coastal protection enhancement work for North-East Coast and Jurong Island of Singapore

Jun 2016 – Mar 2018 **Benaim Ltd (Hong Kong)** **Geotechnical Engineer**

- Lead geotechnical engineer for 3 underground stations and 1 crossover box. Responsible for developing detailed and optimised schemes for underground stations and tunnel ancillary structures, including the development of construction methodology and sequencing, temporary earth retaining structures (TERS) designs and permanent works design.
- TERS schemes developed included top-down with D-Wall and full slab as struts, semi-top-down with D-Wall and RC struts integrated as part of permanent slabs, bottom-up with D-Wall and steel struts, bottom-up with SBP and temporary ground anchors, open-cut excavation in limestone rock with temporary rock bolt/shotcrete provided for rock face stability.

June 2015 – June 2016 **Dredging International Pte Ltd** **Senior Project Engineer**

TTP1 was a major project comprising dredging, reclamation and construction of a caisson quay wall for a future container terminal port.

- Analysed and provided engineering interpretation and solutions during soil investigation, preliminary works and dredging/reclamation works;
- Oversaw daily operations at the dredging/reclamation work site on geotechnical aspects;
- Prepared execution methods and standard operating procedures;
- Planned and monitored the production, design and execution of dredging/reclamation works.

Apr 2012 – May 2015

Arup Singapore Pte Ltd

Geotechnical Engineer

- Developed and performed numerical analysis for various ERSS scheme types across multiple projects, including Shatin to Central Link Contract 1108 (Hong Kong), Eastern Region Line E1002, North South Expressway Contract 4363 and Thomson Line Package D (TSLD) Contract 2105 (Singapore).
- Provided foundation design and construction support for shallow and deep foundations, including bored piles, driven piles and barrette piles.
- Conducted impact assessments of proposed schemes on existing buildings and structures, including tunnels and shallow, deep and mixed-foundation buildings.

Jun 2010 – Mar 2012

**Keller Foundations
(S. E. Asia) Pte Ltd**

Site Engineer

- Site In-charge for Vibro-flotation, Vibro Replacement, Dynamic Replacement and Secant Bored Piling Site.
- Key responsibilities on project sites were as follows:
 - Led a project team to ensure projects were executed on schedule and within budget;
 - Attended site meetings with main contractors to resolve production, quality, technical and commercial issues;
 - Experienced in driven pile, bored pile and secant bored pile installation processes;
 - Experienced in in-situ soil tests such as Pressuremeter Test, CPT and SPT.

EDUCATION

Master of Science (Geotechnical)

National University of Singapore, 2014

Bachelor of Engineering (Civil)

National University of Singapore, 2010

PROFESSIONAL AFFILIATIONS

- Member and Chartered Civil Engineer, Institution of Civil Engineers (ICE)

AWARDS / HONOURS

- ACES Young Consulting Engineer of the Year 2020 – Civil & Structural

The Award aims to recognise young engineers who are making an excellent contribution working as a consultant engineer in Singapore. The awardees would have made a substantial and sustained contribution to their profession and completed excellent work that demonstrates their design and engineering abilities.

- TUCSS Geotechnical Engineering Award 2010

Awarded to students who demonstrated overall competence in Geotechnical Engineering modules.