

## Resume

### Personal details:

**Name:** Thayanan Boonyarak, PhD  
**Address:** 100/446 Suwintawong Road, Nongchok, Bangkok, THAILAND  
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### Education:

- **The Hong Kong University of Science and Technology: 2014**  
**PhD:** Civil and Engineering (Geotechnical)  
**Thesis title:** Three-dimensional interaction of multiple crossing tunnels: centrifuge and numerical modeling
- **Chulalongkorn University: 2002**  
**M. Eng:** Civil Engineering (Geotechnical Engineering)
- **Chulalongkorn University: 1999**  
**B. Eng:** Civil Engineering

### Professional qualification:

- Professional Civil Engineer (๙๖), Council of Engineer, Thailand
- Sub-committee for Geotechnical Engineering, Engineering Institute of Thailand
- Committee for drafting of Safety Regulation Guidelines of Thailand, EIT
- Vice president of Young Professionals Forum of Thailand 2016, the Consulting Engineers Association of Thailand
- APEC Civil Engineering license
- ASEAN Civil Engineering license (ACPE)
- International Society for Soil Mechanics and Geotechnical Engineering

### Work experience:

- **Chief of engineering division**  
**Seafco Public Co. Ltd., 2014-present**
- **Research assistant and PhD candidate**  
**Hong Kong University of Science and Technology, 2010-2014**
- **Senior geotechnical engineer**  
**Seafco Public Co. Ltd., 2002-2010**

### Responsibility:

#### *Design and analysis:*

- *Leading team for design and analysis of deep foundation, retaining wall, bracing system, steel structures, reinforced concrete structures and soil improvement*
- *Prepare method statement, design reports, technical proposal and testing report*
- *Evaluate impact from construction on adjacent sensitive structures and propose effective measures to prevent damage to the structures*

**Research and development:**

- *Publish technical papers and make presentation in international and local conferences*
- *Collect, analyze and interpret field monitoring data and prepare case study reports*

**Construction management:**

- *Supervise construction of deep excavation, deep foundation, infrastructure and soil improvement works*
- *Estimate project cost, construction plan and schedule*

**Skill:**

- Design and analysis of deep excavation, deep foundation in difficult soil conditions and structural analysis
- Team leading for design, analysis and construction management
- Analytical skill and critical thinking for research and development works
- Project coordination among client, consultant and contractor
- Perform analysis using geotechnical engineering and civil engineering software e.g. ABAQUS, PLAXIS 2D & 3D, WALLAP, STADD Pro and AutoCAD

**Language:**

- Thai: native
- English: fluent (IELTS 7.5)
- German: basic knowledge (ZDAF)
- Mandarin Chinese: basic knowledge (Basic level 2)

**Special training:**

- Asian Regional Conference (15 ARC), Japan, 2015
- Physical modeling, Australia, 2014
- Geo congress, USA, 2012
- PLAXIS and deep excavation, The Netherlands, 2005
- More than 30 international and local conferences

**Selected publications:*****Refereed journal publications***

Five publications in top-rank journals in geotechnical engineering (i.e. ASCE Journal of Geotechnical and Geoenvironmental Engineering; Canadian Geotechnical Journal and Géotechnique Letters)

***International conference proceedings***

More than 30 local (in Thai) and international (in English) conference proceedings related to tunneling, deep foundation, deep excavation, ground improvement and non-destructive testing