



NATAKAN NAIYANA

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Core Qualifications

- Civil engineering
- Earthquake engineering
- Research and report
- Structural design and analysis
- Analysis software: PERFORM-3D, MATLAB, SAP2000, and ETABS
- Language: IELTS 6.0 (2023)
- MS office
- Problem-solving
- Critical thinking
- Collaboration
- Communication

Education

Ph.D. candidate
2018-Present

Civil Engineering
King Mongkut's University of Technology Thonburi
• Granted by Petchra Pra Jom Klao Doctoral Scholarship, KMUTT

Master of Engineering
2015-2018

Civil Engineering, GPA 3.76
King Mongkut's University of Technology Thonburi
• Granted by Academic Excellence Scholarship, CE, KMUTT

Bachelor of Engineering
2010-2014

Civil Engineering (International program), GPA 3.45
King Mongkut's University of Technology Thonburi
• Granted by Petchra Pra Jom Klao Scholarship (Academic Excellence), KMUTT
• Granted by ITCE Platinum, ITCE, KMUTT

Publications

International journal

- Seismic design of buckling- restrained knee-braced frames considering cumulative damage. (2023)

International conference

- A review on performance-based plastic design method: concept and recent developments. (2010)
- Taiwan-Thailand collaborative project on seismic strengthening of soft-story school buildings in northern Thailand. (2022)

National conference

- Seismic evaluation and strengthening of a two-story reinforced concrete building in Chiangmai province. (2017)

Future publication

- Cumulative damage optimization and design lateral force distribution for buckling-restrained knee-braced frames.
- Performance of Soft-Story Building During the 6.1 Mw Mae Lao in Northern Thailand and Seismic Strengthening with Concrete Jacketing Method.

Experiences

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| Exchange researcher | <ul style="list-style-type: none">• National Center for Research on Earthquake Engineering (NCEE), Taiwan |
| Design and analysis | <ul style="list-style-type: none">• Design of small buildings (2-3 story buildings): school, house, and commercial buildings• Seismic design and analysis of buildings: school, commercial, and office buildings• Retrofitting/Strengthening design and analysis |
| Cost estimation | <ul style="list-style-type: none">• Small buildings (2-3 story buildings): warehouse, house, and commercial buildings |
| Teacher assistant | <ul style="list-style-type: none">• Structural analysis subject• Steel and timber design subject |
| Trainee | <ul style="list-style-type: none">• Structural engineer (On shore), Technip Engineering (Thailand) limited |
| Education seminar | <ul style="list-style-type: none">• 14th National conference, Kasetsart University Kamphaeng Saen Campus, Thailand• 11th National Conference on Earthquake Engineering, Taiwan• 24th National Convention on Civil Engineering, Thailand• Anniversary Workshop in Commemoration of the 1999 Chi-Chi and 2022 Chihshang Earthquakes (ACCCS), Taiwan |

Hobbies and interests

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|---------------------------|---|
| Books and podcasts | <ul style="list-style-type: none">• Mental health and Psychology• Self development• Fantasy |
| Exercise | <ul style="list-style-type: none">• Weight-training• Boxing• Badminton• Yoga |
| Travel | Explore new experiences during traveling from natural landscapes, cultures, foods, and people. |