PRAMIN NORACHAN (Ph.D.)

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PERSONAL DETAILS

Nationality: Thai
Born: December 4, 1979

EDUCATION

Ph. D. in Civil and Environmental System Engineering (Structural Engineering), February 2012
Konkuk University, Seoul, Korea.

M Eng. in Structural Engineering, May 2005
Asian Institute of Technology, Pathumthani, Thailand.

B Eng. in Civil Engineering (First Class Honor), March 2003
King Mongkut's Institute of Technology North Bangkok, Thailand.

ENGINEERING LICENSE

Professional Engineer in Civil Engineering (Thailand)

WORK EXPERIENCES

AIT Solutions (Thailand), February 2012 – Present
(Coordinator, Civil & Structural Engineering Unit)
Responsible for modeling, analysis, evaluation and design of buildings, performance-based seismic design of buildings, nonlinear modeling, analysis and design of structures, seismic evaluation and retrofit of existing buildings, BRB and CFRP design for strengthening and retrofitting RC structures.

Project

- Advisory services on performance-based seismic evaluation of building 1 of Hines Atrium Place, Gurugram, India
- Seismic evaluation and retrofit design of Campus One Bridgetowne East existing building using buckling restrained braces (BRB), Pasig City, Philippines
- Structural design review of diaphragm segments of the bridge No.13, Port Access Elevated Highway (PAEH) Project, Sri Lanka
- Structural design review of foundations for dynamic equipment of degassing pelletizer structure, Vietnam

- Structural system development code-based design review of One Gulshan Building, 15-story building, Bangladesh
- Performance-based seismic design of 8990 Urban Deca Cubao condominium project, 45-story residential building with precast bearing wall system, Philippines
- Performance-based seismic design of 5 buildings, Langsuan Village Project, 40-story building (APS), 33-story building (APL), 20-story building (APW), 17-story building (TPV), and 15-story building (LPV), Bangkok, Thailand
- Performance-based seismic design of 140-Wireless project, 23-story office building, Bangkok, Thailand
- Performance-based seismic design of Plum condo project, 38-story residential building with precast bearing wall system, Nonthaburi, Thailand
- Seismic evaluation and retrofit of UNESCAP Secretariat and Service buildings, Bangkok, Thailand
- Seismic evaluation of Royal Textile Academy building, 3-story RC frame structure including 2-story basement levels, Thimphu, Bhutan
- Seismic Evaluation and Retrofit of Staff and Amenities Building, Hotel Yak and Yeti, 4-story RC frame building, Kathmandu, Nepal
- Experimental Seismic Fragility of Siam Gypsum Partition Walls, Bangkok, Thailand
- Performance-based seismic design of Hotel Nikko, Tumon, Guam
- Structural design review and re-design of the single-layer super reticulated steel domes with a large span of 86 m at wat Buddhasaengdham, Saraburi, Thailand
- Performance-based seismic evaluation and progressive collapse evaluation of Ireo City Office towers, 32-story office and 34-story hotel buildings, India
- Performance-based seismic evaluation of Roxas Triangle Towers (Tower 2), 55-story high-rise building, Makati City, Philippines
- Performance-based seismic evaluation of the tall building for Living Stone Project, 53-story building, Manila, Philippines
- Design review of amount of reinforcement surrounding at openings of precast concrete wall panels, Thailand
- Performance-based seismic evaluation of the Nepal Rastriya secondary school building Project, 5-story building, Kathmandu, Nepal
- Performance-based seismic evaluation of the La Durbar Convention Center Project, 3-story building, Kathmandu, Nepal
- Foundation design review of the tall building for Trump tower, Manila, Philippines
- Foundation design review of the tall building for M-Place Ortigas, Manila, Philippines
- Transfer slab design of the tall building for Studio A residential condominium, Quezon city, Philippines

- FRP design for strengthening and retrofitting of Manila international airport project, Manila, Philippines
- Performance evaluation of Pruksa precast concrete wall between single and double layers of steel reinforcement, Thailand

Palmer & Turner (Thailand) Co., Ltd., January 2007–November 2007, and June 2005–October 2005
Worked as a structural engineer responsible in analyzing and designing tall buildings, such as mat foundations, car parking, flat slab and structural parts of buildings.
Project
- Modeling, analysis, and design of the Siri at Sukhumvit Project, 48-story residential building, Bangkok, Thailand

COMPUTER SKILLS

Programming Language and Software
Visual Basic, Fortran 95, HTML, CSS, JavaScript, VBA,
MATLAB, MathCAD, Maple 9,
SAP2000, ETABS, PERFORM-3D, SAFE, CsiCOL, CsiBridge, AutoCAD,
Microsoft Office

Software Development
PX (Perform-3D eXtension) - Extended Pre and Post Processing Software for PERFORM-3D

HONOR

Royal Thai Government (RTG)
Full scholarship for the master's degree in engineering,
Asian Institute of Technology, Thailand.

TEACHING

AIT Classes, 2015 – Present
- Overview of finite element modeling and analysis of tall buildings, CE 72.32 – Design of Tall Buildings.
- Introduction to ETABS (Basic Concepts and Tools), CE 72.32 – Design of Tall Buildings.
- Seismic design of cast-in-place concrete diaphragms, chords and collectors, CE 72.32 – Design of Tall Buildings.
- Design of reinforced concrete foundations, CE 72.32 – Design of Tall Buildings.
- Prestressed concrete (basic concepts), CE 72.52 – Advanced Concrete Structures.
- Retrofit and design of RC buildings (basic concepts), CE 72.52 – Advanced Concrete Structures.
- Retrofit and design of RC buildings (FRP design for RC members), CE 72.52 – Advanced Concrete Structures.

- Introduction to MATLAB, CE 72.52 – Advanced Concrete Structures.

Seminar on Designing of Special Structural Members for Earthquake Resistance, Thailand Concrete association (TCA), Bangkok, Thailand, 2019

- Seismic design of cast-in-place concrete diaphragms, chords and collectors, general concepts & design examples.

Seminar on New Approaches of Structural Design for Earthquake Resistance, Thailand Concrete association (TCA), Bangkok, Thailand, 2019

- Performance-based seismic design of tall buildings

Seminar on Precast Concrete Structural Systems: The Future and Applications in Building Industry in Myanmar, Yangon, Myanmar, 2018

- Performance-based seismic evaluation of hybrid structural systems.

Seminar on Modelling, Analysis, Evaluation and Construction of High-Rise Buildings, Thailand Concrete association (TCA), Bangkok, Thailand, 2018

- Performance-based seismic design of tall buildings, general concepts & case studies.

Technical Seminar and Workshop on Performance-based Structural Design of Tall Buildings, Bangkok, Thailand, 2018

- Performance-based seismic design of tall buildings, case studies.

Seminar and Workshop on Design of Tall Buildings: Trends and Advancements for Structural Performance, Bangkok, Thailand, 2016

- Seismic design of cast-in-place concrete diaphragms, chords and collectors, and seismic design of reinforced concrete foundations.

Seminar on Technologies of Seismic Strengthening of Buildings, Chiang Mai, Thailand, 2015

- Nonlinear modeling and analysis of buildings using commercial finite element programs, and examples of seismic evaluation and strengthening of reinforced concrete buildings.

Rajamangala University of Technology Tawan-ok: Uthenthawai Campus Classes, 2014 – 2015

- Structural dynamics and building design, Advanced Theory of Structure, 07-12-503.

ACTIVITIES

7th Asia Conference on Earthquake Engineering, Seismic Resilience for Safer Cities and Infrastructures, Bangkok, Thailand, 2018
Session chair of the event**.**

Concrete Training Project, Thailand, 2003
Concrete technology tutor at King Mongkut's Institute of Technology North Bangkok.

Thai-German Engineering Project (TEP), Thailand, 2000
Mathematics and Physics tutor at King Mongkut's Institute of Technology North Bangkok.

THESIS & DISSERTATION

Doctoral Degree
A Co-Rotational 8-node Solid-Shell Element for Three-Dimensional Analysis of Prestressed Concrete Structures.

Master's Degree
Design Improvement of R/C Interior Beam-Column Joint in Low to Moderate Seismic Risk Region.

Bachelor's Degree
Behavior of Concrete Mixed with Shreded Poryethylene Tetraphalate (PET) plastic.

RESEARCH AREAS

Performance-based seismic design of tall buildings
Seismic evaluation and retrofit of buildings
Structural design of precast concrete buildings
Development of a finite element program XFINAS
Geometrical and material nonlinearities base on FEM
Construction stage analysis of prestressed concrete bridges
Time-dependent analysis of prestressed concrete structures
Simulation of wave and current forces on offshore structures

PAPERS & CONFERENCES

Pramin Norachan, Ki-Du Kim, Eugenio Onate, Analysis of Segmentally Constructed Prestressed Concrete Bridges using Hexahedral Element with Realistic Tendon Profiles, **Journal of Structural Engineering (ASCE)**, Vol. 140(6), 2013.

Pramin Norachan, Songsak Suthasupradit, Ki-Du Kim, A co-rotational 8-node degenerated thin-walled element with assumed natural strain and enhanced assumed strain, **Finite elements in analysis and design**, Vol. 50, 70−85, 2012.

Bunlue Kimuam, Pramin Norachan, and Nonthachat Kunprapha, Seismic Evaluation and Retrofit of an Existing Reinforced Concrete School Building in Northern Thailand, **The 22nd National Convention on Civil Engineering, Nakhon Ratchasima, Thailand**, 2017

Phirawat Chantharin, Pramin Norachan, and Nonthachat Kunprapha, A Comparison of Nonlinear Static and Dynamic Analyses of RC Buildings under Seismic Loads, **The 22nd National Convention on Civil Engineering, Nakhon Ratchasima, Thailand**, 2017

Naveed Anwar, Thaung Htut Aung, Pramin Norachan, and Wanassanun Kerlken, Case Study: Performance-base Design of Ductile Core Wall Building, **EASEC-14, Structural Engineering and Construction Conference, Ho Chi Minh City, Vietnam**, 2016

Naveed Anwar, Pramin Norachan, Thaung Htut Aung, Challenges of a Single-Layer Reticulated Inverted Monk Bowl, **IABSE Conference – Structural Engineering: Providing Solutions to Global Challenges, Geneva, Switzerland**, 2015

N. Anwar, P. Norachan, P. Warnitchai, T. Htut Aung, An Overview of Analysis and Design of a Single-Layer Reticulated Inverted Monk Bowl Dome, **The 7th Regional Symposium on Infrastructure Development, Bangkok, Thailand**, 2015

Pramin Norachan, Ki-Du Kim, Kyung-Chul Kim, Time-dependent analysis of PWR prestressed concrete containment considering realistic tendon profile, **The 2011 World Congress on Advances in Structural Engineering and Mechanics**

Pramin Norachan, Ki-Du Kim, Finite Element Analysis of Offshore Wind Turbines under Environmental Loadings, **The 6th International Symposium on Steel structures (ISSS)**, 2011.

Songsak Suthasupradit, Panot Chobsilprakob, Pramin Norachan, Ki-Du Kim, A co-rotational 9-node assumed strain element for large diaplacement elasto-plastic analysis of plates and shells, **Conference of Korean Society of Steel Construction**, 2008.

Panot, Songsak, Pramin, Kim Ki-Du, A Nonlinear Co-Rotational Quasi-Conforming 4-Node Shell Element using Ivanov-Ilyushin Yield Criteria, **Journal of Korean Society of Steel Construction**, 20 (2008) 409-419.

Se-Hun Lee, Songsak Suthasupradit, Panot Chobsilprakob, Ki-Du Kim, Pramin Norachan, Jae-Yoon Cha, Large Displacement Elasto-Plastic Analysis of Shell Structures Using an Eight-Node Solid-Shell Element ,**International Symposium on Steel Structures**, 2009.

Sacharuck Pornpeerakeat, Panot Chobsilprakob, Pramin Norachan, Ki-Du Kim, Kim Do, Nonlinear Formulation of Biot's Consolidation via Enhanced Assumed Strain Method, **Advances in Structural Engineering and Mechanics (ASEM)**, 2008.

REFERENCE

Naveed Anwar, Ph.D., Vice President for Knowledge Transfer, AIT Consulting Director, ACECOMS, Affiliate Faculty, Structural Engineering, AIT, Pathumthani, Thailand.
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Professor Pennung Warnitchai, School of Engineering & Technology, Asian Institute of Technology (AIT), Pathumthani, Thailand.
Email pennung.ait@gmail.com

Professor Kim Ki-Du, Department of Civil and Environmental System Engineering, Konkuk University, Seoul, Korea.
Email kimkd@konkuk.ac.kr