

PHASUTH CHAMNANCHANG

Structural engineer

PERSONAL INFO

A young engineer who is passionate in structural design and unconventional structures especially in bridge and steel structure.

Eager to learn new things and knowledge. Glad to work and be lectured from every experienced engineer.

SKILLS

Languages

- English – Fluent (IELTS 7 out of 9, 2018)
- Thai – Native Speaker

Technical and Software

- Finite Element Analysis based program e.g., SAP2000, Oasys GSA, NovaFrame
- AutoCAD
- Microsoft Office

Structural Knowledge

- Prestressed Concrete
- Design of Bridges
- Nonlinear Structural Analysis
- Finite Element Analysis
- Plated and Shell Structures

Structural Stability

WORK EXPERIENCE

STRUCTURAL ENGINEER • NORCIV ENGINEERING CO., LTD. (BANGKOK, THAILAND) FEBRUARY 2020 – PRESENT

Two years of experience as a structural design engineer in an infrastructure consulting company. Deliver safety and economical designs and solutions regarding structural aspects for both owners and contractors parties.

Assigned Project

- **Columbo Light Rail Transit (LRT), Sri Lanka**
Structural design and calculation of box segmental prestressed concrete portal frames and concrete substructures supporting LRT viaduct (British Standard)
- **Chachoengsao Bypass, Department of Highway, Thailand**
Structural design, calculation, and bill of quantity of a cast-in-place prestressed concrete box-girder (12.5m-flange-width) U-turn road bridge and concrete substructures including abutments (AASHTO)
- **Sirat Double Decker Expressway, Bangkok, Thailand**
Structural design and calculation of box Segmental prestressed concrete portal frames and concrete substructures supporting concrete I-girder deck (AASHTO)
- **Pink Line Monorail Stations, Sino-Thai Engineering and Construction (STECOM), Bangkok, Thailand**
Design and calculation of steel entrance structures including main members and connections, and concrete substructures e.g., 9m-height steel stairs entering overground station, 20m-span Pedestrian steel walkway bridge, 1m-diameter CHS columns anchored in concrete foundation, and concrete podium and foundation design via strut-and-tie model and SAP2000.
Responsible for deliver calculations and drawings including footing plans of entrances for 28 monorail stations (AISC & ASCE)

STUDENT INTERN • AURECON CONSULTING CO., LTD. (BANGKOK, THAILAND) • MAY 2016 TO JULY 2016

3 months in a student internship program as a part of bridge engineering team. Responsible for computer modeling using Autodesk Bridge Design and SpaceGass, and preparing design calculation of an Australian road bridge project.

EDUCATION

MASTER OF SCIENCE • NOV 2019 • IMPERIAL COLLEGE LONDON (LONDON, THE UNITED KINGDOM)

MSc in General Structural Engineering, **Awarded with Merit**

- Design Project and Dissertation
Detailed Design of 150m-span Tied Arch Steel Bridge crossing Thames (Walton, The United Kingdom)
Project supervisors
 - Dr. Ana Ruiz-Teran, D.Eng., Department of Civil and Environmental Engineering, Faculty of Engineering, Imperial College London



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- Mr. Angus Low, Senior Bridge Engineer, ARUP

BACHELOR OF ENGINEERING • JULY 2017 • CHULALONGKORN UNIVERSITY (BANGKOK, THAILAND)

BEng in Civil Engineering, **Awarded with Distinction** (1st class honor), GPAX 3.65 (Rank 3 out of 114 students in 2017)

- Design Project and Dissertation
PARAMETRIC STUDY OF QUANTITY OF GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCEMENT DUE TO FLEXTURE COMPARED WITH DUE TO TEMPERATURE IN CONCRETE SLAB
Project Supervisors
 - Assoc Prof. Phoonsak Pheinsusom, D.Eng., Department of Civil Engineering, Faculty of Engineering, Chulalongkorn University

VOLUNTEERY EXPERIENCE

- Participated in 45th Voluntary Engineering Student Camp (July 2017) in designing and constructing a permanent concrete weir for rural areas (Kanchanaburi, Thailand)
- Participated in 44th Voluntary Engineering Student Camp (July 2016) in constructing a water supply system for rural areas and small communities (Lampang, Thailand)



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