THAPANAT TREWATCHATRANON

Structural engineer

99/118 Pimarn chol 2 village, Moo. 9, Bantom Rd, 合 Tambon muangkao, Amphor Muang, Khonkean 40000

PROJECTS

STRUCTURAL DESIGN ANALYSIS OF O**BAMBOO IN A WATER TOWER** July 2019 - Dec 2019

CAR PARK PROJECT Dec 2017 - March 2018

TIMBER BRIDGE AND MDF TOWER Jan 2017 - April 2017

EDUCATION

M.ARCH DESIGN FOR MANUFACTURE

Sep 2018 - Dec 2019

B.ENG CIVIL ENGINEERING Sep 2015 - Jun 2018

EXPERIENCE

ENGINEERING INTERN July 2018 - Aug 2018

ttrewatchatranon.17@gmail.com $\widehat{\Box}$ Tel. +66 66 145 5491 &



ABOUT ME

UNIVERSITY COLLEGE LONDON

The architect and engineer interact with materials and manufacturing processes. Inspired by topology optimisation and structural form-finding by Grasshopper, this project investigates how to use bamboo as minimally as possible to build a load-bearing structure. It compares the bamboo capacities from ISO-22157, ISO-22516, NSR-10-G-12, EN-1995-1-1 and BS-5268-2 for defining the capacity of the structural members to finite element analysis (FEA) simulations to create a tool for designing a water tower.

QUEEN'S UNIVERSITY BELFAST

The car park project requires engineering student to act as a structural member of a design team consisting of architecture students engaged in the design of demountable car park above a covered but open sided columnfree market place. I was collaborated in the development of several schemes, concentrating on structure and construction. The primary structural material was selected and analysed with ETABs

QUEEN'S UNIVERSITY BELFAST

UNIVERSITY COLLEGE LONDON

OUEEN'S UNIVERSITY BELFAST

Masters of Architecture, in Design for Manufacture

Bachelor of Engineering, with Second Class Honours, in Civil Engineering

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Constructing a timber bridge capable of taking the weight of a person walking across it. Also a laterally tasted tower made of MDF board, tested for efficiency across mass, strength, height and aesthetic appearance.



GRASSHOPPER KARAMBA, (FEA) 00000 00000 SKETCHUP LUMION 00000 **ETABS** 000000 GEOSTUDIO ADOBE LIGHTROOM INDESIGN MICROSOFT OFFICE

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THE DEPARTMENT OF HIGHWAYS IN THAILAND

They were a buildings engineering group that specializes in building highways. I was invited by this large department for transport to do this work.

NINEGATES ENGINEERING CO. LTD.

ENGINEERING INTERN June 2017 - July 2017

I worked with the team as a designer for a two story house. My task also included producing all 3D modelling and floor plans of the house.

AUTOCAD RHINO

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college London with other international students. This has allowed me to be more adaptable to situations and I can exchange the experience that I have from another University with my new friends and colleagues. I enjoy travelling and visiting new places so this is one of the factors which makes me desire to study and work in a new location. More life experience is another factor.

My time studying Civil Engineering has opened

opportunities to me to gain engineering

knowledge and networking with other students and people in the field of engineering. Coming

from Thailand, . I have been able to develop my

fluency by forming good social connections with

local students at Queen's University and University

SKILLS

Qualified Physics Olympiad in Thailand (2012)

Qualified Computer Olympiad in Thailand (2011)