

WORAWAT SRIUDOM

Address: 126/900 Tiwanon road, Pakkred, Nonthaburi 11120, Thailand

Phone: +66(2) 964-2840, Mobile: +66(81) 173-3343, Email: worawat26@gmail.com

EDUCATION

Master of Engineering in Civil Engineering (International Program) 2008 – 2012
Chulalongkorn University, Thailand

GPA: overall 3.69 / 4.00, in major courses 3.83 / 4.00

Thesis Topic: An Application of Lean Concept to Structural Steel Fabrication Process: A Case Study of Steel Box Girder Fabrication for A Bridge Project

Specialization: Major in Infrastructure in Civil Engineering Minor in Construction Management

Relevant Courseworks: Construction System Optimization and Simulation, Lean Concept, Risk Management, Infrastructure Operation and Maintenance, Infrastructure Planning, Infrastructure Construction, and Environmental Impact Assessment (EIA)

Bachelor of Engineering in Civil Engineering 1999 – 2003
King Mongkut's Institute of Technology Ladkrabang, Thailand

GPA: overall 2.44 / 4.00, for the last 60 credit hours 2.90 / 4.00

Special Project: Standard Correction Factors for Strength of Cored Cylinders with Different Ratios of Height to Diameter

SKILLS AND COMPETENCIES

Engineering Expertise:

- Construction System Optimization and Decision Making
- Construction / Fabrication Process Model and Simulation
- Precast Concrete Production and Concrete Mixed Design

Computer Skills: SAP2000 V11, STAAD Pro V8i and AutoCAD 2018

Engineering Codes: AISC, ACI, TIS, and ASTM

ENGINEERING LICENSE AND CERTIFICATES

License to Professional Civil Engineer (Level II Sor-Yor), 2015

Certificate of registration as an APEC Engineer (Civil Engineering), 2016

Certificate of registration as an ASEAN Chartered Professional Engineer (Civil Engineering), 2016

PROFESSIONAL EXPERIENCE

Freelance Engineering Works, Thailand

Project Engineer

Apr 2014 – Current

- Ensure that design and construction works meet project owner's requirements
- Study project feasibility and make a public participation for projects under Chulalongkorn University and Khon Kaen University Professors' consultancy
- Prepare construction contracts, TORs (Terms of Reference), BOQs (Bill of Quantities), and construction drawings for landscape projects at oil and gas tank farms of PTT Public Company
- Accurate specifications for construction work, construction budget, and project schedule
- Design both steel and reinforced concrete structures such as infectious waste and recycling plants and facility buildings, and prepare all construction drawings
- Explore concrete structures of landscape renovation work at Silpakorn University (Wang Tha Phra campus) in order to design for renovated structures
- Manage engineering design work and organize teamwork
- Make a recommendation to construction work and monitor construction progress
- Negotiate design fees of structure and MEP

Stonehenge Company, Bangkok

Senior Structural Engineer

Apr 2019 – Dec 2020

- Make consultancy in structural terms under project management for all buildings at the mix-used project (hotels, condominiums, offices and retails) namely, One Bangkok project (value USD 4 billion)
- Recommend designers to optimize structural components for a cost-saving purpose (value engineering)
- Coordinate with architectural and MEP teams about drawing conflicts and review structural drawings
- Participate in technical meetings to solve structural issues

CTCI (Thailand) Company, Bangkok

Design Engineer

Oct 2012 – Mar 2014

- Model 3D pipe rack steel and reinforced concrete structures for power plants and facility buildings
- Design structural and civil works and prepare construction drawings

Italian-Thai Development Public Company, Bangkok and Pathum Thani

Design Engineer (Steel structure division, Head office)

Oct 2005 – May 2010

- Manage and monitor updated construction drawings of North Bangkok Combined Cycle 700 MW power plant, Bangkok Transit System (BTS) skytrain extension project, and Bangkok Metropolitan Administration (BMA) overpasses to comply with construction works
- Model 3D building structures to check optimal structures for construction work
- Design steel formworks and temporary supports of the bridge over Chao Phraya River, and simulate construction method
- Analyze and calculate 3D steel structures of factories

Technical Engineer (Pathum Thani precast concrete factory - PPCF)

Mar 2004 – Sep 2005

- Manage precast concrete production of capacity 10,000 cubic meter per month
- Design concrete mixture depended on various conditions and production costs
- Solve crack or failure problems of precast concrete elements and panels
- Control quality of raw material and fresh concrete
- Establish concrete mixing design of both normal and self-compacting concrete for production

Cost Engineer and Technical Engineer (PPCF)

Dec 2003 – Feb 2004

- Supervise and monitor construction work for PPCF of area 6,340 square meter
- Estimate and control construction budget of USD 15 million for PPCF

RESEARCH EXPERIENCE

King Mongkut's Institute of Technology Ladkrabang (Department of Civil Engineering)

Research Assistant to Assistant Professor Chalida U-tapao, Ph.D.

Feb 2020 – Current (part-time)

Research Project: An Improvement of Traffic Congestions and Business Units due to The School Oriented Development

- Prepare a proposal, collect data, and apply the data into research methodology
- Give advice for nine graduate students doing a research on various themes including urban planning, underground facility systems, traffic management, and environmental protection. All of which is relevant to this research project.

Chulalongkorn University (Department of Civil Engineering, Physical Resources and Procurement)

Research Assistant to Assistant Professor Vachara Peansupap, Ph.D.

Dec 2016 – Current (part-time)

Research Project: Exploring Critical Problems and Processes for Controlling Building Construction Projects

- Collect data by interviewing with property management and consultant companies about their construction problems
- Analyze data to determine critical factors and solve the problems

Research Project: Study of Gaps and Sealant Materials Influencing on Water Penetration between Precast Concrete Panels

- Analyze raw data, set up a framework, carry out methodologies, and define various research conditions

Research Assistant to Assistant Professor Vorapat Inkarojrit, Ph.D.

Oct 2017 – Aug 2018

Research Project: Chulalongkorn University Sustainability Report based on the ISCN-GULF Sustainable Campus Charter

- Collect data including policies for reduction of energy and water consumption, renewable energy, waste management, carbon emission, building design and construction
- Manage proposal documents and budget for new projects related to energy saving practice, travel behavior, and solid waste composition analysis

AWARD

KKCNN prize at The Twenty-Fourth KKCNN Symposium on Civil Engineering, Japan, 2011

EXTRACURRICULAR ACTIVITY

The Engineering Institute of Thailand Under H.M. The King's Patronage (EIT)

Subcommittee at Engineering Clinic

May 2014 – Current

- Make a recommendation to people who have an impact on situations from the failures of their building structures