

# RESUME



Mr. Wirasak Khongkaew

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## Profile Summary

I have an experience Mechanical Engineer for 8 year in oil and gas, chemical and power plant industries. The experiences are covering detailed engineering, construction, commissioning, project management and Power plant Maintenance.

## Personal Information

**Date of Birth:** January 9, 1986

**Age:** 34

**Marital Status:** Single

**Nationality:** Thai

**Military Status:** Exempted

**Language:** Thai / English

**Hometown:** Nakhon Si Thammarat (Thailand)

## Education

- **2020 – Master of Business Administration (MBA)**, Stamford International University, will graduate 2022
- **2010 – 2012 Master of Engineering** Mechanical Engineering, Thammasat University, GPA.3.28
- **2005 – 2009 Bachelor of Engineering** Mechanical Engineering, Rajamangala University of Technology Krungthep GPA.2.87

## Work Experience

<b>Thai Solar Energy PCL.</b>	<b>Commissioning and Shutdown Section Manager</b> <ul style="list-style-type: none"><li>• Long term maintenance of Biomass power plants including annual maintenance, planning and managing Minor inspection and Major Overhaul activity and Budget planning. LTSA negotiation with Boiler and Steam Turbine Generator</li></ul>	<b>Apr. 2017 – Present</b>
<b>AMATA Corporation PCL</b>	<b>M&amp;E Engineer</b> <ul style="list-style-type: none"><li>• Maintain and Manage Preventive Maintenance System for Utility and Buildings</li><li>• coordinate and advice to the clients, consultants and sub-contractors</li><li>• Project supervision new project</li></ul>	<b>Dec. 2016 – Apr. 2017</b>
<b>CTCI (Thailand) Co., Ltd</b>	<b>Piping Engineer</b> <ul style="list-style-type: none"><li>• Completes basic and detailed piping engineering, Procurement and construction work for the project.</li></ul>	<b>Jun. 2013 – Nov. 2016</b>

## Skills

English ●●●●○  
Computer ●●●●○

## Strengths

Good attitude, Enthusiastic, work under pressure, leadership, team work, creative thinking and interpersonal skill

## Certificate

 Pro.Eng. No.๙๗.4317  
 Boiler Eng. No. 6-61-1512

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### Qualifications and Knowledge:

- Outstanding in knowledge of International Standards Code such as ANSI, ASME, ASTM, API, NFPA, Shell Global DEP etc.
- Outstanding in knowledge of Power plant Equipment, Boiler, HRSG, Gas & Steam Turbine, Fuel handing system, Utility etc.
- Outstanding in Project manage, engineering and construction, and power plant commissioning.
- Knowledge of piping basics design and Inspection, Painting and Coating, Insulation Technology.
- Preventive Plant maintenance, Annual outage maintenance
- Good technic and mechanic skills
- Enthusiastic and Quick learner
- I can work under pressure
- I have leadership and good follower.
- I can work with a team or I can work by myself.
- I'm good creative thinking and interpersonal skill

### Work Descriptions

#### I. Commissioning and Shutdown Section Manager (Thermal Power Plant)

##### Thai Solar Energy PCL. : Apr. 2017 – Present

##### Typical responsibilities of the job include:

- **Senior Mechanical Engineer (OE)**

Study technology biogas and biomass power plant and choose suitable technology follow each location area and fuel material.

Survey on site for study requirement and basic design study.

Corporate with adviser or consultancies for design biogas or biomass power plant.

Leader of plant design with EPC, consultancies and advisers.

Plan schedule for construction, testing & commissioning and equipment's routine test at FTA (factory testing Acceptance)

Evaluate and estimate cost for construction, operation (O&M) and IRR +ROI of each project.

Perform project management and construction management of mechanical installation compliance & quality control testing and commissioning & setup plant.

Monitor control and tracking of contractor/subcontractor or vender work quality and schedule.

Prepare project progress report to management team.

Perform plant daily operation and inspection & maintenance.

Perform maintenance and overall inspection.

Preventive maintenance machines on plant.

Solve machine trouble to reduce machine unplanned breakdown.

Perform equipment machine inventory, stock control, purchase and delivery.

Sign approve license to drawing of engineering documents, permit in company job

Assist the Business Development team in identifying key project design risks and enabling effective decisions.

Create, organize, and maintain documents associated with projects' basis of design throughout the project life cycle, communicate basis of design with EPC Engineers

- **Lead Mechanical Commissioning**

Lead Commissioning (Owner responsibility) of Biomass Power plat for 3 project, Bangsawan Biomass power plant 6 MW, Oscar1 Biomass power plant 9.9 MW, Oscar2 Biomass power plant 9.9 MW.

Reviews contractual documentation.

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Reviews engineering documents to insure that the commissioning & startup requirements are accounted for in the design.

Prepares and keeps up-to-date the pre-commissioning and commissioning execution plans (including the schedule and the mobilization of personnel and equipment).

Supervises the preparation of the pre-commissioning and commissioning procedures.

Manages the execution of pre-commissioning, commissioning and start-up.

Prepares the commissioning progress reports to the project management.

Coordinates assistance EPC.

Supervises, if required, the performance tests.

Assists the Project Manager in contacts for the handover of the plant.

Ensures the preparation of final reports and certificates.

Field commissioning of Biomass Fire Boiler, Steam Turbine, Belt Conveyor, Utility etc.,

- **Shutdown Manager (Annual Outage Maintenance)**

Reviews and analyzes maintenance histories to facilitate process improvements, more productive and cost-effective work plans.

Develops and updates Outage Maintenance schedules as assigned

Control outage Maintenance budgetary and on time shutdown period.

Verifies Major/Minor inspection and overhaul, Technical information of Mechanical Equipment.

Coordinate with vendor, marker, sub-contractor, Service Company and control quality work.

**Project relevant Thai Solar Energy PCL.:**

- Bangsawan Biomass Power plant project 6 MW, Thai Solar Energy PCL. Suratthani, Thailand.( Apr. 2017 – Mar.2018)
- OSCAR 1 Biomass Power plant project 9.9 MW, Thai Solar Energy PCL. Nakhorn si thammarat, Thailand.( Apr. 2017 – Nov2018)
- OSCAR 2 Biomass Power plant project 9.9 MW, Thai Solar Energy PCL. Nakhorn si thammarat, Thailand.( Apr. 2017 – Nov2018)

## II. M&E Engineer

**AMATA Corporation PCL. : Dec. 2016 – Apr. 2017**

Amata industrial estate both Amata Nakorn and Amata City encompasses a total area of 39,370 rai. Utilities system and infrastructure are the backbone on an industrial park such as power, water supply, wastewater management, Telecoms, natural gas, Roads & Common Areas, Factory for rent, etc., these engineering systems that closely related on my responsibility.

Typical responsibilities of the job include:

To be responsible for control, Maintain and Manage Preventive Maintenance System for Utility and Buildings on Electrical, Machines, Piping, HVAC and other related system in Amata industrial estate.

To coordinate and advice to the clients, consultants and sub-contractors on technical matters, problem solving, coordinating and negotiating with internal and external parties.

To be responsible for providing an engineering knowledge, ITB, cost estimate to support new projects on Electrical, mechanical, piping and HVAC.

Supervise day-to-day site works execute mechanical and electrical works in utility and building construction.

Handle the project supervision and documentation.

Manage M&E sub-contractors' submission of method statements, drawings, materials, samples, and work progress.

Ensure of quality of works is achieved and safety regulations are complied with standards management system.

**Project relevant AMATA.:**

- Underground fiber optic cable, AMATA Network Project., Amata Nakorn Chonburi, ( Dec. 2016 – Apr. 2017)

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## III. Piping Engineer

### CTCI (Thailand) Co., Ltd: Jun. 2013 – Nov. 2016

Total 3.6 years of experience in piping engineering and construction work for oil and gas, chemical and power plant industries. The experience completes basic and detailed engineering work, drawing designs, Material specifications, Painting & Insulation specification, detailed cost estimations, detailed schedules, material and project Procurement, etc. for the project.

#### Typical responsibilities of the job include:

Leader on scope of piping material work by according project specifications and standards code with completely all procedure such Design Piping material specification, Painting & insulation specification, Piping Requisition, Technical Bid Evaluation, MTO control, Balance material and Project procurement support.

Design and Checker on detail of GA & ISO drawing, piping line list, by ensuring with quality requirements of design and operation condition, Bill of material, etc.

Monitors and follows up all vendors by closely ensuring that the material supply is executed in compliance with quality requirements, approved drawings, specifications and standards code.

Monitors and appraises the performance of sub-contractors. Initiates and implements corrective actions when the performance of the sub-contractor deviates from what is expected.

Monitors and follows up on all field construction activities by closely coordinating with construction supervisor while ensuring that the installation is executed in compliance with quality requirements, approved drawings, specifications and standards code.

Participates in and follows up on pre-commissioning of construction work while ensuring that it is conducted in accordance with the Owner's regulations and standards

#### Project relevant CTCL:

- UBECXN Improvement project, UBE Chemicals (Asia) PCL. Rayong, Thailand.(Jan 2016 – Dec 2016)
- Small Power Producer Project 239 MW , TOP SPP Co.,Ltd. Sriracha, Chonburi, Thailand (Dec 2013 – Mar 2016)
- The New Grease Plant Project, Thai Petroleum & Trading Co.,Ltd. Samutsakhon, Thailand (2014 - 2015)
- OPTC LINE 3 PTA Project, Oriental Petrochemical (Taiwan) Co.,Ltd. (2013)
- Biodiesel Plant Project, Bangchak Biofuel Public Co., Ltd. Pranakornsri Authaya, Thailand (Proposal 2013)

## IV. Internship Program

### Mechanical and Electrical department

Suvarnabhumi Airport, Airports of Thailand (AOT): Jun-Sep 2009

Mechanical Operation & Maintenance services for Passenger Loading Bridge (PLB) & Visual Docking Guidance System (VDGS)

## V. Training:

- Confined Space Supervisor
- Boiler Inspection Engineer, Engineering Institute of Thailand (EIT), Jan 2019
- CTCL Thailand in house training
  - Material Inspection and Test Requirement
  - PDS 3D model design
  - Firefighting system design
  - External Fireproofing of Equipment Supports and Structures
  - Piping General Layout for PIPE RACK
  - Process Plant Layout & Piping Design (Pot plan)
  - Piping Materials Selection and Applications
- Smart plant Material System by CTCL Head office, Taipei, Taiwan.
- Integrated Management System Requirements ISO 9001 2015, ISO 14001 2015 and OHSAS 18001 2007 by A.J.A. Registrars Ltd.
- Internal Auditor for Management System Requirements ISO 9001 2015, ISO 14001 2015 and OHSAS 18001 2007 by A.J.A. Registrars Ltd.

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**Skills:**

- Good command of Written and Spoken English, TOEIC 505
- Proficient in Microsoft Word & Excel, SmartPlant Material (SPMat)System, AutoCAD, AutoCAD plant 3D, SmartPlant Foundation (SPF) and Strong IT skills
- Typing skills: Thai, 35 words per minute | English, 45 words per minute

**License & Certificate:**

- Professional Engineer License (สามัญวิศวกร) No. ศฝ.4317, Council of Engineering.
- Boiler Inspection Engineer license No. 6-61-1512, Thai Association of Boiler and Pressure Vessel.

**Hobby:**

- Reading and Internet
- Marathon Runner, Fitness, Football, Badminton and Swimming
- Trading

**References:**

No	Name	Position	Company	Contact Details
1	Mr.Somkit Sa-nguantrakul	Piping Section Manager	CTCI (Thailand) Co., Ltd	081-482-4143 email: Somkit@ctci.co.th
2	Prof Dr. Phadungsak Rattanadecho	Teacher Adviser	Department of Mechanical Engineering, Thammasat University	Mobile 085-070-6332,089-612-3197 email: ratphadu@engr.tu.ac.th