



Client:

Position:

Date:

Starting Date:

SAKARIN WAIYAKUL

PERSONAL DETAILS

Date of Birth: Feb 19, 1979

Sex: Male

Age: 40

Height: 171 Cm

Weight: 72 Kg

Nationality: Thai

Marital Status: Single

Religion: Buddhism

EDUCATION

King Mongkut's Institute of Technology Ladkrabang.

Tha-Luang Technical College.

QUALIFICATION

Master Degree of Engineering, Major Mechanical GPA. **3.68/4**

Bachelor Degree of Engineering, Major Mechanical GPA. **3.06/4**

High Certificate of Vocational Education in Production Technique GPA. **3.88/4**



SKILLS

Design Programs:

Everything 3D (E3D)	Naviswork
Plant Design System (PDS)	Abaqus
Smart Plant Review	Mathlab
Caesar II	LotusNote
AutoCAD	SAP
Raster Design	Microsoft Office
Microstation	Out look

Language: TOEIC 660

WORK EXPERIENCE

EMPLOYMENT

Feb 12 – Jun 19	Rayong Engineering & Plant Service (SCG Chemicals)
Apr 06 – Feb 12	Foster Wheeler International Corporation (Thailand Branch)
July 05 – Apr 06	Technip Engineering (Thailand) Ltd.
Apr 04 – Jun 05	Celestica (Thailand) Limited

Experience with Rayong Engineering & Plant Service (REPCO) SCG Chemicals Group

Jan 19 – Jun 19	TPE_Bagging_BG Line2 Replacement Client: Thai Polyethylene Co., Ltd.
Jan 19 – Jun 19	TPE_Control Room Pressurization for PP1&2 CCR Client: Thai Polyethylene Co., Ltd.
Jan 19 – Jun 19	TPE_LL concrete pipe rack repair Client: Thai Polyethylene Co., Ltd.
Jan 19 – Jun 19	TPE_R-1 Catalyst Building Compliance Client: Thai Polyethylene Co., Ltd.
Jan 19 – Jun 19	TPE_HD1 Install SOV for ESD upgrade Client: Thai Polyethylene Co., Ltd.



Senior Construction Engineer

Responsibilities:

- Day to day Coordinating and supervising all construction activities.
- Problem solving site issues and minimizing associated construction delays
- Administer subcontracts and Purchase Orders through daily communication with subcontractors, suppliers
- Ensuring quality and accuracy of work performed/deliverable
- Communications with design leads and senior management
- Ensuring project deliverables adhere to the drawings and specifications
- Maintaining documentation as per site specific system
- Maintaining construction schedule of project.
- Tracking costs associated with the work, review with project budget.
- Maintaining site security.
- Follow up with internal/external clients directly on results and to discuss timelines, schedule and budgets (ie: Project Manager and Project Coordinator).
- Communication with Contract Administrator or client's representative.
- Actively engaging people in daily kick off meeting, HSE meetings, responsible for a weekly inspections on site and to make sure people are reporting learnings.
- Teamwork and Collaboration.

Aug 18 – Dec 18 **RPL_Install Fire Water Pipeline**

Client: **Rayong Pipeline Co.,Ltd**

Nov 17 – Aug 18 **RTC_BCM Naphtha and Pygas Pipeline**

Client: **Rayong Terminal Co.,Ltd**

Oct 17 - Nov 17 **MOC_TK1010AB VOCs treatment**

Client: **Mabtaphut Olefin Co.,Ltd**

July 17 – Sep 17 **MOC_GHU-I R-800B**

Client: **Mabtaphut Olefin Co.,Ltd**

April 17 – June 17 **TPE_SMX**



Client: **Thai Polyethylene Co., Ltd.**

Jan 17 – Mar 17 **ROC_Clarifier modification**

Client: **Rayong Olefin Co.,Ltd**

Oct 16 – Dec 16 **MOC_WWT change material line sludge system**

Client: **Mabtaphut Olefin Co.,Ltd**

Aug 16 – Sep 16 **TPE_R-1 Hexane distillation**

Client: **Thai Polyethylene Co., Ltd.**

May 16 – July 16 **ROC_Direct toluene to truck load**

Client: **Rayong Olefin Co.,Ltd**

May 16 – July 16 **TPC_Install VCM column feed preheater**

Client: **Thai Plastic and Chemicals Public Company Limited**

May 16 – July 16 **TPC_Install VCM stripper side reboiler**

Client: **Thai Plastic and Chemicals Public Company Limited**

Mar 16 – April 16 **MOC_FG Hydraulic Improvement**

Client: **Mabtaphut Olefin Co.,Ltd**

Mar 16 – April 16 **ROC_C-1200 Modification**

Client: **Rayong Olefin Co.,Ltd**

Dec 15 – Feb 16 **TPE_Move OL cut tower (T-751)**

Client: **Thai Polyethylene Co., Ltd.**

Nov 15 – Dec 15 **MTT_Relocate pygas product to Jetty 4**

Client: **Mab Ta phut Tank Terminal Company Limited**

Nov 15 – Dec 15 **ROC_Install PSV for protect 8 FG**

Client: **Rayong Olefin Co.,Ltd**

Nov 15 – Dec 15 **TPE_Monomer Loss Recovery HD23**

Client: **Thai Polyethylene Co., Ltd.**

Nov 15 – Dec 15 **MOC_Maximize C4**

Client: **Mabtaphut Olefin Co.,Ltd**

Senior Project Engineer

Responsibilities:

- Monitor and Control Budget and Project Schedule to ensure that budget, schedule and quality are not over project proposal.



- Coordinate with inter disciplines and contractor to clarify technical problem.
- Report to client for project progress, budget spending and technical problem that concern to budget, schedule and quality and the way to solve problem.
- Participate in development of project's budget, cost estimates and project management schedule.
- Coordinate design and procurement, and ensure timely deliverables from design to procurement, construction
- Monitor functional group planning and progress.
- Coordinate w each function to ensure timely delivery of all project deliverables.
- Assist Project Managers to conduct project risk assessment and project lesson learned regularly.
- Maintain efficient communication between all parties, act as Project Manager when relevant, assist with sign-off/approvals.
- Reinforce safe behaviors.
- Motivate teams and individuals.
- Support and encourage changes aimed at improvement management.
- Delegate appropriately.
- Make decisions to clarify or expedite work.
- Monitor performance and feedback to Project Manager.
- Monitor performance of functional groups and provide feedback to Project Manager.
- Review and approve documentation/deliverables produced by functional groups.
- Work with Prime Contract Administrator for internal and external MOC process.
- Chair various project related meetings.
- Review planning within the project to check activities are clearly defined, sequenced and resourced.
- Review and check cost and schedule progress reports.



- Provide options when faced with problems or conflicts.
- Verification that important activities are complete and checking they meet standards required.
- Coordinate with Construction Engineering Manager/ Production Manager to ensure proper method statements/procedures are implementing on site.
- Participate in project tendering, ensuring all required information (Safety, Engineering, Quality, Procurement, Construction, Project Management, Risk Management) provided to Proposal Manager for the overall proposal preparation and coordination.

Sep 15 – Nov 15 **MTT Aromatic Tank Switching Project**

Client: **Mab Ta phut Tank Terminal Company Limited**

April 15 – Oct 15 **VCM2 Quench Overhead Recovery Project**

Client: **Thai Plastic and Chemicals Public Company Limited**

Jan 15 – April 15 **VCM1 Shutdown 2015**

Client: **Thai Plastic and Chemicals Public Company Limited**

Jan 14 – Dec 14 **VCM 1 Equipment Replacement Project. (Expansion)**

Client: **Thai Plastic and Chemicals Public Company Limited**

Lead Piping Engineer

Responsibilities:

- Management of a team of engineers and managing design projects.
- Assess the required technical knowledge and skills of engineers and designers within the discipline, and to determine training needs.
- Coordinate and work with other discipline leads on technical and departmental issues.
- To study project requirements to establish a project deliverables list.
- To assist piping manager for annual performance review of staff in the department.
- To coordinate with the piping manager for the purchase of additional software and other resources required for the discipline.



- To assist the HR department with the review of CVs for recruitment.
- To evaluate discrepancies in design from design basis, specifications and scope of work and assist in resolving the issues
- Participating in review during engineering stage. Such as HAZOP's etc. as required
- To execution of conceptual design, feasibility studies, PMC, FEED, detail design, procurement support, construction, testing and commissioning
- To evaluation of technical bids and vendor drawing reviews.
- To ensure that safety, environmental and quality and standards are implemented, incorporated and maintained in the design of project.
- Preparing man-hours estimation for the preparation of proposals and bids.
- Providing guideline of engineering design knowledge of oil and gas piping and associated systems such as pump, drum, and heat exchanger and so on.
- To review and calculation of piping design, stress analysis, piping material selection.
- To review and prepare of specifications, datasheets, material requisitions and drawings such as piping layouts, plot plans, general arrangements and isometrics.
- Working knowledge of international codes, standards and regulations in mechanical engineering such as ASME, ASTM, ANSI, API, NFPA, etc.
- Visit to site for checking exist site condition for piping design.

Nov 13 - Dec 13 ***MOC-Turnaround 2013***

Client: **Mabtaphut Olefin Co.,Ltd**

Jul 13 – Dec 13 ***MOC-Propane Feed Flexibility (Modification)***

Clients: **Mabtaphut Olefin Co.,Ltd**

Feb 12 – Dec 13 ***ROC Term Service Project, Thailand (Modification)***

Client: **Rayong Olefin Co.,Ltd**

Feb 12 – Dec 13 ***MOC-Plant Improvement Project (Revamp)***

Client: **Mabtaphut Olefin Co.,Ltd**



Feb 12 – Dec 13 **MOC-Enclosure Ground flare Project (Green Field)**

Client: **Mabtaphut Olefin Co.,Ltd**

Senior Piping Engineer

Responsibilities:

- Piping budget estimation for the project.
- Piping man hour estimation for the project.
- Piping engineering progress report.
- Prepare Piping Weekly work activities report.
- Monitor Work load of piping engineer and piping designer.
- Review Piping Details Design from Piping Designer.
- 3D Model Review with client.
- HAZOP review.
- Review As built piping drawings.
Review fire water spray nozzle design from vendor by Referring NFPA.
- Order fire water piping equipment such as deluge valve and spray nozzle.
- TBE for Piping Materials.
- Issue and follow up piping material.
- Issue special piping material datasheets.
- Long Lead Time Piping Materials plan to order.
- Answer technical query of piping material.
- Piping calculation such as pipe wall thickness, branch reinforcement.
- Contact vendor to order piping materials.
- Site Survey for reviewing pipe routing and tie-in.
- Preparing ITB for bidding engineering contractor.
- Contact Engineering contractor for bidding project.
- Review documents and drawings from contractor.
- Review critical line list for pipe stress analysis.
- Review pipe stress analysis report from contractor.
- Perform pipe stress analysis for critical lines and reports.
- Review Static Equipment, Rotating Equipment, Instrument, Electrical, Civil datasheets drawings.



- Review WPS & PQR.
- Technical Clarification with engineering contractor.
- Technical consultancy to client.
- Support technical issue for construction team.

Experience with Foster Wheeler International Corporation

Oct 11-Feb 12 **Thaioil EI&PSA3 Project, Thailand (Revamp)**

Client: **Thaioil Public Company Limited.**

April 11-Oct 11 **Sriracha Clean Fuels Project, Thailand (Revamp)**

Clients: **Esso (Thailand) Public Company Limited.**

Feb 11-Apr 11 **Feasibility Study CDU Light Distillate Section Upgrade Project, Indonesia (FEED)**

Client: **PT PERTAMINA Refinery Unit VI**

Feb 11-Apr 11 **IRPC Ethylene Export Project, Thailand (FEED)**

Clients: **IRPC Public Company Limited**

Jul 10-Jan 11 **550KTA CTA Steam Tube Dryer Project, Thailand (Revamp)**

Client: **Tuntex Petrochemical Company Limited.**

Aug 08-Jul 10 **Thailand Propylene Oxide Project, Thailand (Green field)**

Client: **Dow Chemical Thailand Limited.**

Apr 07-Jul 08 **Cepsa-huelva refinery project, Spain (Green field)**

Client: **Cepsa.**

Jan 07- Mar 07 **CDU3 EPCm project, Thailand (Revamp)**

Client: **Thai oil public co., Ltd.**

Oct 06 – Jan 07 **CDU3 in house project, Thailand (Revamp)**

Client: **Thai oil public co., Ltd.**

Apr 06 – Oct 06 **CDU-3 Revamp Project, Thailand (Revamp)**

Client: **Thai oil public co., Ltd.**

Piping Design Engineer & Field Piping Engineer

Responsibilities:

- Lead Piping Engineer to run project.
- Review Piping Details Design from Piping Designer.



- Monitor Work load of piping engineer and piping designer.
- Groom young piping design engineer.
- Piping design follows P&ID and client standard.
- Piping 3D Modelling.
- Producing Plot plan drawings.
- Producing General Arrangement Drawings.
- Producing Isometric Drawings.
- Producing Demolition General Arrangement Drawings.
- Producing Demolition Isometric Drawings.
- Producing Tie-in Drawings and Details.
- Equipment Layout Study.
- Preliminary Equipment Drawings.
- Selecting Pipe Support
- Commenting P&IDs, Equipment Datasheets and Vendor Drawings Civil and Structure Drawings, E&I datasheets and Drawings , Process Datasheets
- Meeting with Client for technical Clarification
- Site Survey for checking pipe routing and Tie-in.
- Performing Equipment Layout Study
- Plot Plan Development
- Expansion Loop Design for offsite Piping.
- Engineering Support on site.
- Answered and Solved Site Technical Query.
- Piping calculation such as pipe wall thickness, branch reinforcement.
- Checking Tie-in location before erection.
- Technical Support for piping material issued.
- Site Visit for Engineering issued.
- Punch list Verification and Solution.
- Coordinate with Client, Piping Supervisor, sub- contractor and concerned disciplines.
- Material Take Off



- 3D Model Review with client.
- Review As built piping drawings.
- Technical consultancy to client.
- Support technical issue for construction team.

Experience with Technip Engineering (Thailand) Ltd.

Jul 05 – Apr 06 **KWPA Upgraded to hub platform project, Thailand.**

Client: **Chevron Thailand Exploration and Production, Ltd. (CTEP) Crude bund wall water supply project, Thailand.**

Client: **Alliance Refining Co, Ltd. Thailand. Water recycles unit project, Thailand.**

Client: **The Aromatics Co, Ltd.**

Piping Engineer

Responsibilities:

- Performing Piping Detail Design of Piping Work such as Plot Plan, GA, ISO and Bill of Material.

Other Experience

Apr 04 – Jun 05 ***Celestica (Thailand) Limited***

Process Engineer

Responsibilities:

- Process Control for Product

TRAINING

Trainer: POSCO Engineering Co., Ltd. (at South Korea)

Training Period: **3 Months**

Course Title: **Piping Design, Piping Material, Pipe Stress Analysis**

Trainer: Process Equipment Technology Co., Ltd.

Course Title: **Piping Systems for Process Plants; Design and Maintenance Practice:**

Trainer: Foster Wheeler International Corporation



Course Title: **Basic knowledge of piping engineering**

Course Title: **Piping layout overview**

Course Title: **FW Piping Materials Systems**

Course Title: **Pipe Stress Analysis**

Course Title: **Plant Design System (PDS)**

Trainer: Intergraph

Course Title: **CAESAR II Pipe Stress Analysis (Static)**

Trainer: Aveva

Training Period: **1 Month**

Course Title: **Everything 3D (E3D)**

Trainer: The Engineering Institute of Thailand

Course Title: **Welding Control, ASME IX**

Course Title: **Method and Technique for Testing Boiler**

Course Title: **Design and Install of Fire Water System**

Course Title: **Design of Building Piping System**
