Client:

Position:

Date:

Starting Date:

KANYAWEE AUNSUEA

EDUCATION

Bachelor’s degree of Chemical Engineering at King Mongkut's Institute of Technology Ladkrabang with GPA 2.80

SKILLS

Software Skills

- PRO-II, Aspen HYSYS
- Visual flare
- HTRI
- COMOS software

WORK EXPERIENCE

Wood Thailand (May 2019 – May 2020)

Aug 2019 – May 2020

T3 Project (Lenzing Group Thailand)

Plant location **:** The plant is located at 304 industrial park Prachinburi, Thailand.

Plant description : Process transforms vegetable pulp from wood into textile fabrics, expected to produce with an average capacity of 90,000 TPA This process is strictly confidential information.

Process Engineer

- Prepare basic design for plant drainage system, isolation philosophy
- Conduct Process simulation for Hot Water network system (Aspen HYSYS)
- Perform process calculation and report; hydraulic calculation, line sizing, tank sizing and venting calculation, relief load calculation, PSV sizing, Control valve sizing.
- Prepare process deliverables; P&ID, PFD, equipment list, line list, equipment process data sheet; vessel, pump, heat exchanger, Instrument process data sheet. (via COMOS)

May – Aug 2019

Symphony Project (FEED) (ARKEMA PTE. LTD,)

Plant location : The plant is located in Jurong Island, Singapore.

Plant description : Polymer Polyamide-11 (PA11) production

Project Engineer

- Perform project deliverable list, Equipment list, Line list, Tie-in list of area U2000 is ISBL
- Participate 3D model review and prepare 3D model closed out report
- Carry out coordination of Project Engineering issues between disciplines and project work task

TTCL Public Company Limited (Jun 2011 – Apr 2019)

2016 – 2019

PTTGC Olefins Reconfiguration Project (ORP Project)

Plant location : The plant is located in Map Ta Phut, Thailand.

Plant description : The Olefins Reconfiguration Project (ORP) includes a utilities unit and storage facilities (OSBL) for process plant (ISBL). The plant is planning a capacity of 500,000 metric tonnes/year polymergrade ethylene.

Sub-Lead Process Engineer

- Responsible for Flare system in the plant.
- Created Flare network philosophy for High Pressure (HP) Flare and Low Pressure (LP) Flare system.
- Sizing flare header, knock out drum sizing, report preparation.
- Verify and modify existing LP flare network can be capable with new LP flare capacity.
- Review and develop process deliverables relevant to the flare system; P&ID, PFD, equipment data sheet, PSV data sheet, process control philosophy and interlock
- Process Design of Process Safety Data (Fire Proofing and Fire Fighting system).
- Technical support and coordinate with Construction team and Client

Process Engineer

- Participate 3D model for Flare system and steam system
- Participate HAZOP and SIL study for Flare system and Steam system with Plant Owner.
- Attend site survey for existing plant tie-in battery limit.

Procurement Section

- Prepare Process specification sheet for Flare Stack.
- Review vendor documents and Technical clarification with Flare supplier.

2014 - 2016

SCC RAPID Utility Project (OSBL)

Project location **:** Johor, Malaysia

Plant description **:** The Steam Cracker Unit for Petroliam Nasional Berhad (PETRONAS). Consists of ISBL process unit and OSBL utility unit designed to produce polymer Grade Ethylene and Polymer Grade propylene for Olefins production.

Process Engineer

- Prepare Process Safety Design data for Fire Proofing and Fire Fighting system.
- Detailed design for drainage system included drainage system of transformer yard.

- Hydraulic calculation & sizing of Basin for Accidental contaminate continuously water in process area.
- Design and verify Thermal Rating for Heat exchanger via HTRI simulation Program.
- Prepare Overall Utility Consumption, Utility Balance Diagram and Utility Station.

2012 - 2014

Carbon Capture and Chlor-Alkali Plant Project

Project location **:** San Antonio, Texas

Plant description **:** The Chlor-Alkali plant is designed to produce 230 MTPD 32%NaOH and SkyMine facility to recover carbon dioxide gases from the flue gases

Process Engineer

- Responsible for detailed engineering for Sodium Bicarbonate Conveying System.
- Directly support Lead project Engineer, Coordination and deliverables among disciplines
- Conduct process calculation; hydraulic calculation, Relief load calculation of Safety Device Breather valve, PSV and Rupture Disc.
- Review and develop process deliverables; P&ID, PFD, Equipment list, Line list, Instrument process data for Carbon Capture plant.

Procurement Section

- Prepare Process data sheet for Bicarbonate Dryer Package
- Prepare Requisition, Bid tabulation and Internal Purchase Order (IPO) for Bicarbonate Dryer Package.
- Technical and commercial clarification with Supplier.
- Review vendor print and vendor’s reply TQ to comply with project requirement.