

Mr. Sarote Phromdee
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Personal Details:

Date of Birth: January 12, 1989 Age: 30 Gender: Male
Height: 175 cm. Weight: 75 kg. Nationality: Thai
Religion: Buddhist Marital status: Single
Military status: Reserve officers training corps course (ROTC)

Educations:

2012-2014 M. Eng. in Chemical Engineering, Polymer Engineering Laboratory,
Chulalongkorn University
2009-2012 B. Eng. in Chemical Engineering, Mahanakorn University of Technology (First
Class Honors)
2007-2009 Diploma, Petrochemical, Rayong Technical College
2004-2007 High School Certificate (Sci-Math), Benjamarachutis School, Chanthaburi

Qualifications:

- Have licenses from Council of Engineers (License no. 223868).
- Knowledge about basic chemical process equipment & chemical process.
- Proficient in PI ProcessBook, Aspen Plus/Pro II, SuperPro Designer, Math Lab, AutoCAD, Matelis and Microsoft Office program.
- Good knowledge in polymer processing, polymer synthesis, blends & composites.
- Experiences in extrusion, injection and compression molding process.
- Experiences in research of thermoplastic/polymer network composites & polymer blends.
- Able to use analytical instruments such as DMA, DSC, FTIR, GPC, GC& HPLC.
- Good interpersonal skill, fast learning, high responsibility, good team player, and working under pressure.
- Be an internal auditor for Process Safety Management (PSM) program in organization
- Good command of written and spoken English

Hobbies: Gardening, Bicycling, Soccer, Badminton, Traveling and Internet playing

Work Experiences:

Jul. 2015 – Present

Process Engineer, Section: Project/Engineering/Reliability,
Asia Silicones Monomer Ltd. (Shin-Etsu Silicone)

- Verify and provide necessary information for Plant Change or modification in term of Process Design
- Coordinate and assist Project team for implement, commissioning, startup and shut down activities
- Perform process design, develop preliminary process flow diagrams
- Check and Update P&I Diagram, Alarm setting, Interlocking, and Safety Shut Down system
- Use a process simulation (Pro-II) to develop process simulations for design, optimization, etc.
- Maintain/Improve Plant Operating Performance that includes Plant Reliability, Plant Efficiency and Utilization base on collective data and analysis.
- Support such as: resolving Process Hazard Analysis (PHA's: HAZOP), evaluating and recommending process reliability improvements, and developing and implementing long-term reliability projects
- Review designated major equipment document received from the selected vendor prior to purchase as needed.
- Estimate cost and control budget for new project.
- Do EIA & IEE reports to submit IEAT for expansion project.
- Prepare documents to get approval from IEAT such expansion permit, construction permit, test run permit and operation permit.
- Cooperate with supply chain team to prepare document to submit BOI for expansion project.
- Participate in Process Safety Management (PSM) Team (Be internal auditor).

- Jul. 2014 – Jun. 2015 ***Production Technology Engineer***, Section: Process Control, Sumitomo Rubber (Thailand) Co., Ltd.
- Planning job for new production development for trial unit mass production
 - Improve and control the quality of new product
 - Improve and control waste in process
- Aug. 2012 – June. 2014 Thesis title: Research and Development of Conductive Polypropylene Composites for Electronic Packaging (Financial Support from PTT Public Co., Ltd.)
- Published in Periodical of Journal of Metals, Materials and Minerals, Vol. 24 (2014) pp. 33-36 in the topic “Development of Electronic Packages from Polypropylene/Ethylene Propylene Rubber Blends: A Double Percolation Approach”
 - Published in Periodical of proceedings book of PACCON 2014 pp. 481-484 in the topic “Electrical and Mechanical Properties of Polypropylene/Ethylene Propylene Rubber/Carbon Black Composites”
 - Published in Periodical of Advanced Materials Research, Vol. 968 (2014) pp. 21-24 in the topic “Thermal Properties of Silicon-containing Polyimide Filled with Carbon Black of Low Structure”
- Researcher*** at Polymer Engineering Laboratory, Chulalongkorn University (6 months)
- Synthesized Benzoxazine resin (Phenolic resin) to use in making alloy polymers
 - Studied the mechanical properties of synthesized polymer by DMA & Universal testing machine (Flexural & Tension mode)
 - Studied the thermal properties of synthesized polymer by DSC & TGA
 - Studied the physical properties of synthesized polymer by FTIR, density testing & morphology by SEM

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| June 2011 – Feb. 2012 | Senior project in the topic “Feasibility to Synthesis Reagent for Recovery Residual Rubber from Skim Latex” (Financial Support from Thailand Research Fund) |
| Nov. 2008 – Feb. 2009 | Apprentice at Thai Polyethylene Co., Ltd. (SCG Model School) <ul style="list-style-type: none"> ➤ Studied process of LDPE production including BFD, PFD and P&ID diagram of plant ➤ Studied principle, problem & solving of cooling water system |

Certifications:

- Professional Project Management Program from Thailand Productivity Institute on May 22-23, 2018
- Internal Auditor for Process Safety Management (PSM) from Council of Engineers, training on January 4-6, 2017
- Essential Process Design and Basic Engineering Skills for Engineering from ChemEngEdu, training on March 6-7, 2017
- HAZOP STUDY from NPC Safety and Environmental Service Co., Ltd., training on August 19-21, 2015 (Certificate no. GC-3296/15)
- Training courses for safety in the workplace for supervisor from NPC Safety and Environmental Service Co., Ltd., training on September 17-18, 2015 (Certificate no. SS-2029/58)
- Job Safety Analysis supervisor from NPC Safety and Environmental Service Co., Ltd., training on September 22, 2015 (Certificate no. GC-4068/58)
- Storage of chemicals and hazardous materials from NPC Safety and Environmental Service Co., Ltd., training on April 20, 2016 (Certificate no. GC-1763/59)

References:

1. Prof. Dr. Sarawut Rimdusit, Polymer Engineering Laboratory, Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University,
Tel. 08-4076-0689, E-mail: sarawut.r@chula.ac.th
2. Asst. Prof. Dr. Sunan Tiptipakorn, Department of Chemistry, Faculty of Liberal Arts and Science, Kasetsart University, Tel. 08-9687-2277, E-mail: otiptipak@yahoo.com