



<b>Qualification Highlights and Key Achievements</b>	More than seven (7) years of Safety Engineering experience in the Oil and Gas industry. Provided solutions to a wide range of safety & risk issues supporting ongoing production facilities as well as in engineering design phases of gas and petrochemical plants resulted in robust designs and safe operations.
<b>Date of Birth</b>	July 16, 1980
<b>Citizenship</b>	Thai
<b>Education</b>	M.Sc. in Engineering and Management (System Design and Management Fellow), Massachusetts Institute of Technology (MIT), Cambridge, MA - 2014  M.Eng. in Chemical Engineering, Imperial College London, London, United Kingdom – 2003 <i>Please refer to the last page for details of special courses/training.</i>
<b>Languages</b>	Thai (native), English (fluent), German (basic)
<b>Relevant Experience</b>	<b>CB&amp;I, The Hague, The Netherlands (September 2014 – Present)</b>
<b>2016 – Present</b>	<p><b>Senior Safety &amp; Environmental Engineer / Technical Safety Specialist</b>  ORPIC, LPIC EPC-1 Project, Oman</p> <ul style="list-style-type: none"> <li>• Responsible for the project technical safety aspects in the design including client interface. Coordinate with multi-disciplinary team to find solutions to a wide range of safety and provide support and guidance to four offices including The Hague, Brno, India and Taiwan.</li> <li>• Responsible for development of project HSE Design and Loss Prevention Philosophy, Fire Protection Specification, HSE Case, Performance standard of Safety Critical Elements.</li> </ul>
<b>2015</b>	<p><b>Lead Safety &amp; Environmental Engineer</b>  Oman Gas Company, Salalah LPG Project (FEED), Oman</p> <ul style="list-style-type: none"> <li>• Responsible for the project safety, environmental and human factors aspects in the design and client interface.</li> <li>• Verified consultant safety studies including QRA, FGDERA and EERA.</li> <li>• Optimized plant layout, and provide design assurance on cryogenic and pressurized storage tanks to improve fire protection capabilities.</li> <li>• Participated in HAZID, HAZOP, SIL, Human Factor Screening, HRA workshops.</li> <li>• Managed teams and subcontractors located in India and UK.</li> </ul>



2014 – 2015

**Senior Safety & Environmental Engineer**

ORPIC, Liwa Plastic Project (FEED), Oman

- Established Fire Protection specifications for Steam Cracker complex, NGL Extraction plant.
- Provided fire protection design assurance to deliverables including AFP and PFP drawings, Fire water system design, and Fire water hydraulic calculation
- Participated in HAZID workshop and actions closed out, HAZOP and SIL assessment.

2014

**Senior Safety & Environmental Engineer**

CHEVRON, FLNG Feasibility Study Project, Australia

- Developed of HSE Design Philosophy.

**Chevron Thailand Exploration & Production, Bangkok, Thailand (2007 – 2012)**

2007 – 2012

**Facilities Engineer – Safety Engineer**

Managed and coordinated large teams of specialists to find solutions to a wide range of safety & risk issues related to the designs and operations existing offshore production and onshore facilities. Example of this are:

- Engaged in Management of Change (MOC) work process roll out and Risk Management work process implementation.
- Conducted fire suppression, dropped object and fire water systems surveys and studies on existing facilities.
- Established new Emergency Escape Evacuation and Rescue Plan including multiple accident scenarios for the multiple bridge-linked processing platforms in Gulf of Thailand.
- Facilitated 30+ Process Hazard Analysis (PHA) sessions including 'HAZOP', 'HAZID' and 'What If/Checklist' and SIMOPs with team of 3-15 personnel for small capital projects for design, installations and commissioning works.
- Provided design review effort on various brownfield projects including Gas lift and Water flooded for oil enhancement, gas hub platform upgrade, condensate system capacity upgrade, wellhead compressor exhausted relocation etc.
- Identified and retrofitted design issues including overpressure protection, inherently safe layout, fire protection systems, gas dispersion and radiation from vent/flare systems.
- Won two recognition awards (2009, 2011) for outstanding engineering work supporting on-going production and major capital project for Thailand business unit.

2009 – 2010

Assignment EPC Platong Gas II Project, Gulf of Thailand  
Lead Safety Engineer



	<ul style="list-style-type: none"><li>• Verified consultant safety studies including Quantitative Risk Assessments (QRA), Accidental Load, Gas Dispersion, and LOPA, SIL assessment etc.</li><li>• Optimized firewater, passive fire protection, gas detectors network designs as well as providing design assurance and risk mitigation recommendations to ensure the platform met standards and code requirements.</li><li>• Participated in offshore commissioning activities including 28" gas pipeline pigging as well as leading deluge system commissioning.</li></ul>
<b>2006 – 2007</b>	<p><b>Johnson &amp; Johnson Thailand Limited, Bangkok, Thailand (2006 – 2007)</b></p> <p><b>Quality and Technical Assurance Engineer</b> Worked in oral care and sanitary protection franchises supporting new product introduction, technology transfer execution, alternative material development and qualification.</p>
<b>2003 – 2006</b>	<p><b>Dow Chemical Thailand Limited, Rayong, Thailand (2003 – 2006)</b></p> <p><b>Improvement Engineer</b></p> <ul style="list-style-type: none"><li>• Implemented LOPC Reduction and Hazard recognition programs to identify gaps and reinforce employee's safety awareness to help reduce workplace injuries and accidents.</li><li>• Designed new process flow upgrade to the Latex production lines including integrating new equipment, resulting in 10% improvement in asset utilization as well as safety performance.</li><li>• Participated in plants Layer of Protection Analysis (LOPA), LPP and Burner Management Audit reviews.</li><li>• Resolved conflicts occurring between Dow Chemical and Union Carbide Loss Prevention Principles (LPP) by employing an upgrade to the Latex processing facility.</li></ul>
<b>2002</b>	<p><b>ICI, Wilton, United Kingdom (2002)</b></p> <p><b>Intern Engineer</b> Developed a multiphase reactor relief simulation model for Strategic Technology Group (STG), which enhanced STG modeling capability for various practical scenarios.</p>
<b>Special Courses/ Training</b>	<p>Certificates:</p> <ul style="list-style-type: none"><li>• FS Eng (TÜV Rhineland)</li><li>• VCA (Safety for Operational Supervisors)</li></ul>



- CFSE Functional Safety Engineering
- Safety in Design
- Gas Conditioning and Processing
- PHA for Team Leader
- API RP14C
- Pressure Safety Valve
- System Theoretic Accident Model and Processes (STAMP)
- Fire Safety Integrity Assurance
- Hazardous Area Classification (API 500)
- Technical Safety
- Engineer Incident Prevention Program