

Kulpitcha Sudyodprasert

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SUMMARY: Drilling Engineer and Supervisor with 9 years of experience in the oil and gas industry, specializing in well design, drilling project management, petroleum geology, and subsurface data science. Passionate about sustainable petroleum and alternative energy resources. Committed to continuous learning and open to relocation.

EDUCATION

Master of Science, Petroleum and Geosystems Engineering (GPA 4.00/4.00) Expected May 2025
The University of Texas at Austin

Coursework: Advance Petrophysics, Subsurface Machine Learning, Advance Drilling and Well Completion Design, Geothermal and Sustainable Energy, Applied Data Analysis and Machine Learning, Carbon Capture and Storage

Bachelor of Engineering, Petroleum Engineering (GPA 3.90/4.00 – 1st Class Honors) Mar 2014
Chulalongkorn University (Thailand)

Coursework: Fluid and Rock Properties, Reservoir I - II, Drilling, Production, Well Logging, Thermodynamics

WORK EXPERIENCE

The University of Texas at Austin – Austin, Texas Jan 2024 – Present

Graduate Research Assistant in Rig Automation Performance Improvement in Drilling (RAPID)

- Developing machine learning models for automated detection of events and well integrity abnormalities in the production phase with Hess Corporation, leading to early detection and prevention of well barrier breaches.

PTT Exploration and Production (PTTEP) – Bangkok, Thailand

Drilling Engineer, Myanmar Well Operations Sep 2021 – Aug 2023

- Executed project planning, well design, drilling program, PNA, drilling fluid and cementing design for onshore/offshore and HPHT wells
- Coordinated as focal point engineer on Hakuryu-5 and SLTS Semi-submersible Rig, Gulf of Martaban, Myanmar; designed and drilled 13 appraisal wells achieving 24% performance improvement and 14% cost saving
- Managed contract design, bidding, and contract management for services including Drilling Rig, Cementing, Solid Control, Tubular Running, Fishing, Remote Operated Vehicle, Subsea Wellhead, and Waste Management, achieved 10% bidding cycle reduction, 12% cost saving
- Developed a 5-year budget plan for the drilling and well services department
- Led Drilling Report Automation Project with data science techniques, achieving 7% man-hour cost savings

Drilling Engineer, Thai Onshore Well Operations Jul 2019 – Sep 2021

- Optimized operations on Rig 151HD and GWT-11 (Land Rig), designed and drilled 70 development and infill wells resulting in 20% performance improvement and 10% cost saving
- Conducted feasibility and conceptual research on Onshore slot recovery wells with cement on surface, Onshore deep hydraulic fracturing well design, and Caving minimization in S1 onshore field
- Established internal guidelines, including S1 Well Catalogue & Well Design Selection, Generic Drilling Program for S1 Operation, and S1 Waste Management
- Served as Subject Matter Expert (SME) in WARPOT (Chatbot) Project, utilizing data science applications
- Managed the Drilled Cutting to Road Pavement Project for Circular Economy, achieving 12% waste reduction

Night Drilling Supervisor (NDSV) Jul 2014 – Jul 2019

- Supervised drilling operations on various rigs, including Vantage Aquamarine Driller Jack-up, Sapura T-17 Tender-assisted (offshore Gulf of Thailand), and E-11, GW-80, E-05 (onshore Thailand), ensuring safe and efficient processes in HPHT, loss/ kick, and well breathing situations
- Experienced in slot recovery, rig mobilization, and rig demobilization process. Skilled in drilling operation supervision, personnel management, transportation planning and problem-solving

VOLUNTEER EXPERIENCE

Fellowship: *TEX-E Fellow (Texas Exchange for Energy and Climate Entrepreneurship)* Aug 2024 – Present

- Engaging in collaborative projects to drive entrepreneurship in energy innovation with an emphasis on environmental sustainability. The fellowship involves hands-on projects aimed at solving critical energy or environmental challenges.

SKILLS

Technical Skills: Advanced Excel | PowerBI | Intermediate Python (Jupyter, Colab) | Advanced HLB Landmark (OpenWells, Compass, WellPlan, StressCheck)

Soft Skills: Problem-solving, Adaptability, Teamwork, Leadership, Critical thinking

Languages: Thai (Native), English (Fluent)