



SON PHAM



APAC Region
Engineering Manager

WA
Australia



PERSONAL INFO

BIRTH DATE
31 May 1982

NATIONALITY
Vietnamese,
Australian

YEARS OF EXPERIENCE
+16 years

CONTACT INFO

PHONE
+61 439 022 252

WEBSITE
<https://son-n-pham.github.io/>

EMAIL
phamsonn@gmail.com

LINKEDIN
www.linkedin.com/in/son-n-pham/

LANGUAGES

ENGLISH

VIETNAMESE

HOBBIES



ABOUT ME

Team-oriented, responsible, diligent, quick learner, creative, and adaptable. I automate processes and develop tools to boost productivity, efficiency, and save time and costs.

+\$10MM

In USD cost-saving for clients by products and drilling optimization

+15

Countries to work and support

+235

PDC designs created & utilized across Baker Hughes

+980

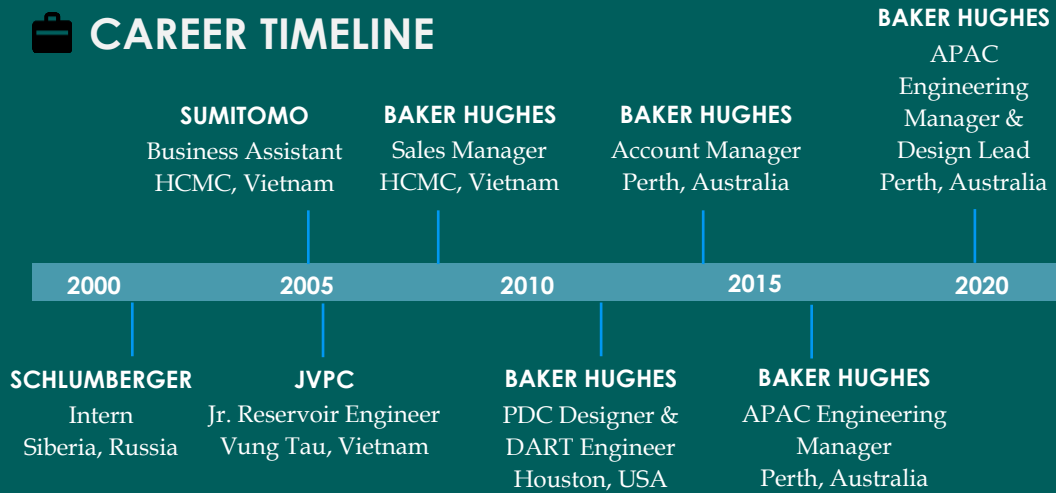
PDCs manufactured from my designs

EDUCATION

2005 BSc. Petroleum Geology
HCMC University of Technology

2023 Master of Information Technology
University of Western Australia

CAREER TIMELINE



EXPERTISE

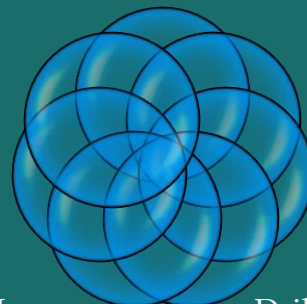


Data science, AI, software programming, cloud computing

PDC design

Petroleum geology, reservoir engineering

Profit & Loss / Business Management



Technical Sales, Account Management

Root Cause Analysis

Drilling & drill bit application engineering

EXPERIENCE

APAC ENGINEERING MANAGER & DESIGN LEAD – DRILL BITS | BAKER HUGHES | 2020 – CURRENT | AUSTRALIA

- Successfully developed drill bits and designed PDCs for the Asia Pacific region
- Conducted root cause analysis, resolving drilling and drill bit-related issues in high profile applications
- Mentored team members on engineering matters related to drilling optimization and drill bits
- Identified and pursued new market opportunities by liaising with other product lines

APAC ENGINEERING MANAGER – DRILL BITS | BAKER HUGHES | 2016 – 2020 | AUSTRALIA

- Acted as the main liaison between Asia Pacific and Head Quarter in Woodlands, Texas, USA
- Managed and promoted new drill bit technologies, enhancing regional operations
- Designed PDCs for key applications in the region, improving drilling efficiency
- Resolved engineering-related issues in Asia Pacific, ensuring smooth operations
- Mentored team members on engineering matters related to drilling optimization and drill bits

ACCOUNT MANAGER – DRILL BITS | BAKER HUGHES | 2014 – 2016 | AUSTRALIA

- Prepared drill bit proposals and tenders, optimizing drilling performance through BHA, drilling parameters, and drill bit selection
- Designed PDC locally for Australia, improving service delivery quality and shortening product optimization cycles
- Acted as a technical lead and mentored team members, enhancing their skills and knowledge

PDC DESIGNER & DART DRILLING APPLICATION ENGINEER | BAKER HUGHES | 2012 – 2014 | USA

- Mentored US-based designers on drilling applications and client/region expectations
- Served as the first level liaison with field operation employees, addressing drilling application and drill bit design issues
- Participated in Design Application Review Team (DART) for offshore drilling projects in Asia Pacific, China, and Africa, contributing to the development of next-generation drilling bits
- Developed suitable design approaches, BHA, and drilling practices based on specific analyses of drilling and drill bit applications, geoscience, and internal resource constraints

ACCOUNT MANAGER, APPLICATION ENGINEER, THEN SALES MANAGER | BAKER HUGHES | 2008 – 2012 | VIETNAM

- Managed P&L, human resources, and inventory, ensuring efficient operations
- Supervised and mentored drilling application engineers and technical representatives
- Served as a Subject Matter Expert of drill bit and drilling applications for clients in offshore Vietnam
- Analyzed geological, petrophysical, and geophysical data, optimizing drilling bit performance
- Collaborated with internal drilling application engineers and DART in Houston to develop optimal drilling strategies and suitable drilling bit designs for clients' applications

- Coordinated with other internal product lines, particularly directional drilling services, to provide bundled services

JR. RESERVOIR ENGINEER | JAPAN VIETNAM PETROLEUM COMPANY | 2005 | VIETNAM

- Monitored the performance of over 20 offshore production and injection wells
- Analyzed well interactions to develop suitable production strategies, enhancing oil and gas recovery
- Managed production database, updating and back-allocating daily production for further reservoir development strategy
- Employed reservoir engineering techniques to forecast production for crude oil shipments
- Coordinated with Production and Petroleum Engineering departments to resolve daily operation issues and prepare regular production reports

BUSINESS ASSISTANT | SUMITOMO | 2005 | VIETNAM

- Collaborated with drilling engineers and geologists from oil & gas companies in Vietnam, identifying drilling challenges and potential opportunities
- Assisted in coordinating with suppliers and customers, ensuring efficient communication and facilitating business transactions
- Conducted market research, gathering valuable information on the industry, competition, and customer preferences

INTERN | SCHLUMBERGER | 2003 | RUSSIA

- Observe, learn and adopt the QHSE (Quality, Health, Safety and Environment) culture of the top service company in the remote locations in Western Siberia, Russia
- Manage inventory and support other engineers and specialists to run operation smoothly.

SIGNIFICANT PROJECTS

- Onshore Australia PDC Development
 - Clients: Santos, Beach Energy
 - Role: PDC Designer, Drilling Application Engineer
 - Achievement: Developed 8 ½" and 6 ¾" PDC designs for onshore drilling in Australia, resulting in improved drilling performance and efficiency.
- China NW Slim-hole PDC
 - Client: China National Oil Company
 - Role: PDC Designer, Drilling Application Engineer, Engineering Manager
 - Achievement: Designed slim-hole PDCs for drilling in extremely hard, abrasive, and conglomerate formations, leading to enhanced drilling capabilities in challenging environments.
- Geothermal Drilling with Kymera in Indonesia
 - Clients: Supreme Energy, KS Orka
 - Role: Drilling Application Engineer, Engineering Manager
 - Achievement: Utilized Kymera technology for geothermal drilling projects, contributing to the successful completion of high-profile projects in the region.

- TerrAdapt PDC Technology for Oil & Gas Drilling in Indonesia
 - Client: PHM
 - Role: Application Engineer, Engineering Manager
 - Achievement: Implemented TerrAdapt PDC technology for oil and gas drilling projects, improving drilling performance and efficiency in the region.
- China SW Shale Gas
 - Client: China National Oil Company
 - Role: PDC Designer, Drilling Application Engineer, Engineering Manager
 - Achievement: Addressed challenges related to drilling in hard, abrasive rocks with low ROP and high DLS, leading to improved performance in the harsh environment. The family frames have achieved hundreds of runs in China, setting several records of both ROP and drill distances.
- China NE Daqing
 - Client: China National Oil Company
 - Role: Drilling Application Engineer, Engineering Manager
 - Achievement: Improved drilling performance in metamorphic formations with hard, abrasive rocks and very low ROP by optimizing drilling parameters and bit designs.
- Thailand PDC Design for Bit Walk Application with AGS
 - Clients: Chevron, PTTEP
 - Role: PDC Designer, Drilling Application Engineer, Engineering Manager
 - Achievement: Designed PDCs to address bit walk applications, enhancing drilling stability and efficiency in challenging conditions.
- Thailand PDC Design for Motor Drilling with Very High ROP
 - Clients: Chevron, PTTEP
 - Role: PDC Designer, Drilling Application Engineer, Engineering Manager
 - Achievement: Developed PDC designs for motor drilling applications, resulting in a significant increase in ROP and overall drilling performance.
- INPEX in Australia – Kymera/Kymera XT Hybrid Technology
 - Client: INPEX
 - Role: Drilling Application Engineer, Account Manager
 - Achievement: Utilized Kymera/Kymera XT hybrid technology for stable tool face control, high DLS, low vibration, and high directional requirements, improving drilling performance.
- INPEX in Australia – 8 ½” Dynamus/PermaFORCE PDC
 - Client: INPEX
 - Role: Drilling Application Engineer, PDC Designer, Supporting Australia Application Engineer
 - Achievement: Successfully develop the new 8 ½” 7-bladed PDC for reservoir hard rock section in INPEX, which continuously deliver strong performance and cost saving for the client as well gain more market share for the company. The design is stable, efficient for hard rock drilling, and is used outside Australia successfully in similar applications across APAC and expanded worldwide.
- Woodside in Australia – Kymera XT Hybrid Technology for Hard Rock Drilling
 - Client: Woodside
 - Role: Drilling Application Engineer, Account Manager

- Achievement: Applied Kymera XT hybrid technology for hard rock drilling, enhancing drilling efficiency and performance in difficult formations.
- Shell in Australia – Kymera Technology for Drilling Reservoir
 - Client: Shell
 - Role: Drilling Application Engineer, Account Manager
 - Achievement: Utilized Kymera technology to drill reservoirs with hard, abrasive rocks, high stick-slip vibration, low ROP, and high DLS requirements, resulting in improved drilling performance.
- Chevron Australia – PDC Optimization for Top Hole Drilling
 - Client: Chevron
 - Role: PDC Designer, Account Manager
 - Achievement: Optimized PDC designs for top hole drilling applications, leading to enhanced drilling efficiency and performance.
- Algeria – DART Application Analysis for Impregnated Bit Design
 - Role: Drilling Application Engineer
 - Achievement: Designed special gauge pads for impregnated bits to pass through very high DLS (up to 30deg/30m) using DART application analysis.
- Vietnam – Drilling in Granite Basement
 - Clients: PetroVietnam, Cuu Long JOC, JVPC, Con Son JOC, Hoan Vu JOC, Hoang Long JOC, Thang Long JOC, Petronas, VietsovPetro
 - Role: Drilling Application Engineer, Account Manager, Sales Manager
 - Achievement: Successfully drilled in granite basement formations, overcoming the challenges of hard, abrasive rocks.
- Vietnam – 16” PDC for Hard, Abrasive, and Highly Interbedded Formations
 - Client: Hoan Vu JOC
 - Role: Drilling Application Engineer, Account Manager, Sales Manager
 - Achievement: Developed a 16" PDC for drilling in hard, abrasive, and highly interbedded formations, mitigating the effects of high stick-slip and vibration, and enhancing overall drilling performance.

EDUCATION

- Bachelor of Petroleum Geology | Ho Chi Minh City University of Technology | 2000-2005 | Vietnam
- Master of Information Technology | University of Western Australia | 2021-2023 | Australia

LANGUAGES

- English: Fluent
- Vietnamese: Native

PROFESSIONAL DEVELOPMENT & SKILLS

- Management:
 - Front Line Management: Business Operations & People Leadership

- Role Readiness Champion Training
- Sales:
 - Value-based Selling & Insightful Sales Techniques
 - Zodiak: Business Finance & Strategy Simulation
- Technical Skills:
 - OASIS Certified: Drill Bit Optimization & Process Tools
 - BHASys Pro: Dynamic & Static Analysis Training
 - Directional Drilling Technologies
 - Advantage Engineering & Reporting for Drilling Systems
 - Data Visualization, Validation & Analysis for Drill Bits
 - Practical Interpretation of Open Hole Logs for Drill Bits
 - DiamondTech & TriconeTech Training
 - Drill Bit & Hole Opening Technology Training
 - Advanced Rig Awareness Training
- Geoscience & Reservoir Engineering:
 - Petrel Software Introduction
 - Eclipse Black Oil Simulation Course
 - Enhanced & Improved Oil Recovery Methods Training
- Drill Bit Design & Manufacturing:
 - Siemens TeamCenter & NX Design Software Training
- Data Science, Machine Learning & Deep Learning:
 - IBM & DeepLearning.AI Courses
- Web Programming:
 - HTML, CSS, JavaScript, jQuery, Bootstrap

SOFTWARE | PROGRAMMING LANGUAGE

- Microsoft Office, Power BI
- Product lifecycle management (PLM)/CAD/CAM: Siemen TeamCenter, NX, Solidworks
- Application engineering software: WellCad, BHASys Pro, Advantage, DDAS, JewelSuite, Petrel, Oracle Crystal Ball
- Programming languages: Python, Javascript, C#, Bash, PowerShell, SQL, HTML, CSS
- Deep understanding on machine learning, deep learning, generative AI and AI agents
- Additional tools: Salesforce, Photoshop, SAP

DATA SCIENCE, DATA ANALYTICS, MACHINE LEARNING, SOFTWARE DEVELOPMENT:

- Several certificates is in my LinkedIn: <https://www.linkedin.com/in/son-n-pham/details/certifications/>