Andrey Rychkov

Engineering Leader | Functional Architect | Digital Oilfield Strategist | Integrated Modelling Expert
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Profile Summary

Experienced engineering and digital transformation leader with over 12 years in the oil & gas industry. Currently leading an analytics group at LUKOIL, managing the development of a universal service-oriented platform to support core business processes across the production chain. Strong expertise in integrated modeling, production optimization, automation, and cross-functional coordination between engineering and IT. Organizer of award-winning training programs, with ongoing involvement in internal education and mentoring. English proficiency: B2 (C1 in progress).

Professional Experience

Production Planning and Optimization Manager - Integrated Operations Center

LUKOIL Mid-East ltd., West Qurna - 2 | Apr.2023 - Present

- Leading development of a digital platform for end-to-end production planning and optimization (SOA architecture).
- Driving Integrated Activity Planning (IAP), Integrated Asset Modeling (IAM), and Production Optimization (PO) cycles.
- Managing cross-functional coordination, including Deferment Management (DM) and Choke Model Management (CMM).
- Supervising Hydrocarbon Accounting (HCA) procedures and Integrated Operations Center (IOC) compliance with HSE standards.
- Delivering 90-Day, 1-Year, and 3-Year integrated production plans across well intervention, facility, and surface modeling.
- Initiating continuous improvement in modeling methodology, planning tools, and digital workflows.
- Coaching engineers and facilitating cross-departmental knowledge sharing.
- Co-led an award-winning corporate learning program recognized in the Oil & Gas Middle East Awards 2025 and nominated for the Gulf Sustainability Awards 2024.

Integrated Modeling Lead - Integrated Operations Center

LUKOIL Mid-East ltd., West Qurna - 2 | Nov.2021 - Mar.2023

- Maintained and updated a full-cycle Integrated Model (IM) and its components for the WQ2 Asset, ensuring operational readiness and monthly reconfiguration.
- Conducted mid- and long-term production forecasting using simulation tools, supporting planning horizons from 1 to 5+ years.
- Coordinated choke model configuration and nodal analysis to identify production bottlenecks and maintain plateau performance.
- Proposed production system improvements, including new wells and surface infrastructure optimisation.

- Managed model bank storage and integration processes across disciplines; provided expert review and guidance to asset engineers.
- Developed technical solutions to extend ESP run life and optimize well-equipment configuration.
- Delivered simulation insights for strategic decisions and supported platform-wide efficiency initiatives using modeling tools.

Lead / Chief Specialist - Production Optimization Dept.
LLC LUKOIL-Engineering | 2019 - 2021

- Oversaw development and maintenance of integrated reservoir and production models.
- Designed and implemented automation tools for engineers (VBA, Resolve workflows).
- Provided technical supervision and methodological support to field modeling teams.
- Organizer of corporate integrated modeling training programs, lecturer for in-house development programs.
- Conducted internal training sessions for over 100 specialists in IPM software.

Lead / Senior / Category I-II Engineer - Hydrodynamic Modeling Dept.
LLC LUKOIL-Engineering, VolgogradNIPImorneft | 2013 - 2019

- Built and supported hydrodynamic and integrated models across multiple fields.
- Developed Excel and .NET tools for production forecasting and reporting.
- Led calculations for short- and long-term production programs (1 - 30 years).
- Expertise of the hydrodynamic models of subcontractors

Education

Master of Management in Business Development - Higher School of Economics, 2021
MSc in Mathematics and Physics Education - Volgograd State Socio-Pedagogical University, 2011
BSc in Oil and Gas Engineering - Samara State Technical University, 2018
BSc in Mathematics - Volgograd State Pedagogical University, 2009

Additional Training

- IPM PetEx, Roxar Tempest, Resolve
- Public Speaking Course (2018)
- Machine Learning (HSE & Yandex, 2018)
- Data engineering (ITMO, 2023)
- Ongoing: B2/C1 English language training

Key Skills

- Stakeholder communication & influence
- Functional and architectural design
- Production optimization and automation
- Team leadership & cross-functional coordination
- Change management in engineering contexts
- Systems thinking and problem solving

- Integrated modeling (IPM Petex, tNavigator Roxar Tempest)
- Programming: VBA, VB.Net, Python, C
- Software: PI System, Energy Components, OVS

Languages

Russian - Native

English - Upper Intermediate (B2), advancing toward C1