

Curriculum Vitae

Mohammad Rostami Dehka (Short Summary)

(No need for work permit in Austria)

Date of Birth 24 April 1978
Marital Status Married, (2 daughters, Rana: 11/Oct/2010 & Hana: 18/May/2015)
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Education

2015 – 2020

PhD

Oil & Gas University of Ploiești (UPG), Romania
Digital Transformation & DOF / Reservoir & Production Engineering

2000 – 2003

Master of Science

Petroleum University of Technology (PUT), Iran
Chemical Engineering - Hydrocarbon Reservoir Engineering

1997 – 2000

Bachelor of Science

Azad University, Iran
Chemical Engineering - Gas Industries

Professional Experience

Jun 2020 – Present

PhD Completed; subject areas:

- First Digital Oil Field Implementation for OMV in Romania, focusing on Technology, People & Processes.
- It was continued by RTO (Real Time Optimization) project during my assignment in Vienna with more than 20 projects and some key initiatives (in PM role):
 - Virtual Metering (two pilot projects Austria and New Zealand, data driven and physics based VFM) was one of key initiative under RTO
 - Well automation and measurements project for more than 5000 wells
 - SCADA integration and alarm management
 - Condition monitoring and predictive maintenance,
 - RCA, DMAIC, PDCA and other problem solving methodologies
- E&P Data Management, Democratization, Governance, Integration, Quality, Cloud, HIP, etc..

Transition to Data Science and Analytics;

- Review and learn data science fundamentals, statistics, big data, visualization & reporting, programming, ML/DL
- Learning R programming Language (ongoing)
- Learning Python programming Language (ongoing)
- Power BI & Tableau
- REST API Concept
- Data management, governance and democratization

May 2018 – May 2020

OMV Vienna, Austria

Senior Project Manager Business & Digital Transformation / Senior Expert Production Optimization

- PM for Real Time Optimization Project with more than 20 sub-projects from different countries of OMV Portfolio (some mentioned in PhD subject areas):
 - Leading joint Business-IT projects for DOF (GIS, Openwells, Well Automation, SCADA, IT/OT integration, Metering Point Skid (MPS), Oil Metering Station (OMS), Gas Metering Station (GMS), Gas to Power (G2P), etc.
 - First Advanced Process Control installation in two Upstream assets Onshore & Offshore
 - First Control Loop Performance Optimization set up in one Upstream asset
 - Real time flow assurance & pipeline monitoring, prediction and mitigation systems
 - Mobile fluid level measurement system in artificial lifting wells
 - Video & Audio assisted Well Monitoring
 - ESP Alarm Management & Data Analytics
 - SRP Dynamometer Card Alarm System
 - A green gas field IT/OT and PI Integration
- Leading Business & Digital Transformation & Innovation projects (Technology, People, Process & Organization)

- Technical Authority 1 for production optimization
- Production system (EC, Upstream Dashboard, etc.) developments to capture PMF data (system capacity, forecast, deferment & losses, optimization opportunities, etc.)
- Waterfall, Agile, Scrum and Kanban implementation
- Stakeholders, Change & Communication Management
- Lead advanced data analytics initiatives
- Remote Operations Control Center

Feb 2015 – Apr 2018

OMV/Petrom, Bucharest, Romania

Senior Project Manager / Technical Advisor - Upstream Executive Office / RE & PE Instructor

- Leading first Digital Oil Field Implementation in OMV Petrom
- Leading joint Business-IT projects
- Stakeholders, Change & Communication Management
- Kaizen, Lean and Six Sigma Implementation
- PM Production Management Framework (PMF)
- Control Room Implementation in nine Assets
- Mature field rejuvenation and optimization projects
- Wells & Facilities Automation, Alarm Management, SCADA Integration
- Operations Readiness & Assurance
- Data governance, management and analytics implementation

Dec 2013 – Jan 2015

OMV/Petrom, Bucharest, Romania

Subsurface Field Re-Development (FRD) & Capital Project Manager / RE & PE Instructor

- FRD Viforata
- FRD Runcu
- FRD Calinesti
- Change & Communication Management

Jul 2012 – Nov 2013

Schlumberger, Europe & Africa, Bucharest, Romania

Senior Project Manager / Technical Lead RE & PE / Customer Support, Sales & Marketing, Service Delivery and Business Development Lead / RE & PE Instructor

- Oil and Gas Field Studies and Operations for Customers in EU & Africa
- Field Operations Supervisor (WO/WI)
- Technical Sales and Marketing Manager / Customer Support & Service Delivery Lead

Jul 2010 – Jun 2012

Schlumberger, Iran, UAE, MEA

Reservoir Domain Champion / Technical Lead RE & PE / Customer Support, Sales & Marketing, Service Delivery and Business Development Lead / RE & PE Instructor

- PM & Operations Supervisor for Sampling & PVT analysis
- Technical Sales and Marketing Manager / Customer Support & Service Delivery Lead
- Well testing and Perforation
- Multiphase Flow Meter

Apr 2008 – Jul 2010

Schlumberger, UK, Iran, UAE, MEA

Senior Reservoir and Production Engineer / Technical Lead RE & PE / Customer Support, Sales & Marketing, Service Delivery and Business Development Lead / RE & PE Instructor

- RE/PE software testing, support, training and consultancy projects
- Technical Sales Lead

Feb 2005 - Apr 2008

Pars Petro Zagros (Engineering & Services Co.), Tehran, Iran

Reservoir and Production Engineer / Customer Service Support / RE & PE Instructor

- Reservoir & Simulation Engineer
- Field Operations Supervisor (Well Testing, Sampling, Logging)
- Subsurface project lead for NIOC Database Development (PISDB-Petroleum Industry Samaneh DB) to develop a DB and archive system for all NIOC E&P data in collaboration with other vendors, e.g. IT. etc.

May 2003 - Feb 2005

National Iranian South Oil Co. (NISOC), Ahwaz, Iran

Petrophysicist

- Open-hole logs Interpretations
- Logging Operations Supervisor
- Technical Lead for Logs/Well Files Digitalization projects
- Project lead for the digitalization project of petrophysical logs & well files for a field (re)development campaign and DB management for logs data

Sep 2002 - Jan 2003

Petroleum University of Technology, (PUT), Research Centre, Ahwaz, Iran

Flow Assurance Researcher,

- Asphaltene Phase Behaviour
- Asphaltene Onset determination
- Slim Tube Test / Miscibility

Languages

- English (Fluent)
- Persian (Native)
- Romanian (B2)
- German (A2), currently attending an intensive course on daily basis.

Publications & Presentations

- Shah Syed, S. H, Rostami Dehka, M., Bahraei, R., "Integrated approach to produce un-depleted oil layers from a mature IOOC field", Schlumberger Reservoir Symposium, 2011. **Selected as the best paper to be presented in the Area (PBS, Performed By Schlumberger).**
- Bahraei, R, Rostami Dehka, M., Shah Syed, S. H "Performance of Horizontal Wells in Gas Condensate Reservoirs: South Pars SPD12 Sector Modeling Case Study", Schlumberger Reservoir Symposium, 2011.
- Rostami Dehka, M., Ashouri, A., and Sajjadian, V.A., "A New Scaling Equation to determine the effect of the temperature, molecular weight of n-alkane precipitants and solvent to oil ratio on asphaltene deposition for an Iranian Oil Reservoir", 11th Chemical Engineering Congress, Tarbiat Modares University, Dec., 2006, Tehran, Iran.
- Rostami Dehka, M., Sajjadian, V.A. and Ashouri, A., "Investigation of Temperature Effect on the Asphaltene Deposition for Two Iranian Oil Fields", 1st Iranian Petroleum Engineering Congress, May, 2006.
- Ashouri, A., Taghizadeh, M. and Rostami Dehka, M., "Kinetic modeling of the catalytic hydrogenation of rapeseed oils", 16th International Congress of Chemical and Process Engineering, Chisa 2004, Prague, Czech Republic, 22-26 August, 2004.

Training

- ❖ Data Science, Data Analytics, Business Analysis, Power BI, Tableau, Python, R, OMV Vienna, 2019/2020
- ❖ Agile, Scrum, Kanban, Lean, Project Management, OMV Vienna, 2018 & 2019
- ❖ Engaging Presentations, OMV Vienna, 2018
- ❖ Remote Teams & Virtual Collaboration, OMV Vienna, 2018
- ❖ Winning Behaviors in Action, OMV Vienna, 2018
- ❖ Storytelling, OMV Vienna, 2018/2019/2020
- ❖ Masterclass Digitalization, OMV Vienna, 2018
- ❖ Lean and Kaizen Project Management and implementation, OMV Romania, 2016
- ❖ Project Cost Estimation, OMV Romania, 2014
- ❖ Project Management, E&P Management System, OMV Romania, 2014
- ❖ Crude Oil and Water Treatment, OMV Romania, 2014
- ❖ IPIMS, RE/PE online courses. 2011-2013
- ❖ Sales for Non-Sales Position, Schlumberger, Abu Dhabi, 2011
- ❖ Vx MPFM, Schlumberger, Abu Dhabi, 2011
- ❖ Petrel-RE, Eclipse Black Oil Simulation Schlumberger, Schlumberger, Iran, 2009
- ❖ Sales & Marketing Fundamentals, Schlumberger, Dubai, 2009
- ❖ Project Management, Demonstration Skills, Sales & Marketing Schlumberger, UK, 2008
- ❖ Integrated Asset Modeling, Schlumberger, UK, 2008
- ❖ Artificial Lift & Production Optimization, Schlumberger, UK, 2008
- ❖ Production Optimization Workflow, Schlumberger, UK, 2008.
- ❖ DECIDE!, OFM & PIPESIM Fundamental & Advanced, Schlumberger, UK, 2008
- ❖ PVTi, Eclipse BO, Compositional & Thermal Simulation, Schlumberger, UK, 2008
- ❖ Applied Petrophysics, Dr. Iraj Ershaghi (University of Southern California), Tehran, Iran, 2005

References

- Alvaro Guerrero Morras , Energy Industry Advisor and Consultant, +41 787247298, alvaroguerrermorras@hotmail.com
- Massimo Toschi, International Relations Officer, Institutional Cooperation & Networks, European Union Agency for Fundamental Rights, former Chief of Child Protection Unit in UN, Vienna, +4369917116669, Massimo.TOSCHI@fra.europa.eu
- Amin Talab, PhD, International Negotiation Counselor, Comeon Institute, +4369910934922, amin@amintalab.com

➤ Justus Key, General Manager - Sub-Sahara Africa at Schlumberger, +13469016468, [Justus Kay <WKay@slb.com>](mailto:WKay@slb.com)

* RTO (Real Time Optimization), DOF (Digital Oil Field), RE/PE (Reservoir/Production Engineering), FRD (Field Re-Development), RE/PE Reservoir Eng./Production Eng.

Mohammad Rostami Dehka



Professional Experience**May 2018 – May 2020 1- Senior Project Manager Business & Digital Transformation (OMV Vienna)**

Leading Real Time Optimization (RTO) program with more than 20 projects including IT & OT (Operational Technologies), to transform business, e.g:

- Data Governance, Data Management, Data Assurance, Data Integration, Data Operations, Data Analytics,
- Collaborative Working Environment
- Virtual Flow Metering (VFM)
- Advanced Process Control (APC)
- Control Loop Performance Optimization (CLPO)
- Well Automation Project (WAP)
- Alarm Management
- SCADA Integration
- Well Surveillance & Artificial Lift Monitoring
- People development, competency evaluation and training
- Process assessment and (re) development

Also responsible for Change & Communication Management within the program, budget management, stakeholder management, resource management, risk management, procurements, vendors & supplier interface management.

2- Senior Expert Production Optimization (OMV Vienna)

- Technical authority 1 for production optimization
- Full implementation of Production Management Framework (PMF) across OMV assets globally. PMF Includes 6 standards:
 - System capacity
 - Forecast
 - Deferment & Loss
 - System optimization
 - Reporting system and analytics
 - Meetings & Reviews
- Leading data analytics initiatives for digital transformation and production related projects

Dec 2013 – Apr 2018**1- Subsurface Manager & Project Manager; Field re-developments (FRD); (OMV Romania)**

FRD Viforata shallow reservoir heavy oil steam injection project, deep reservoir infill drilling, waterfloodig, workover candidate selection, production optimization.

FRD Calinesti, conventional mature and depleted reservoirs, seismic acquisition, processing and interpretation.

FRD Runcu, conventional mature and depleted reservoirs with more than 100 years history.

2- Technical Advisor for Upstream Director (Executive Office); PM for digital oil field and control room; (OMV Romania)

First implementation of DOF in OMV in the second biggest oil field in Romania with more than 400 wells, more than 20 production facilities and plants, Metering Point Skid (MPS), Gas to Power (G2P), Oil Metering Station (OMS), Gas Metering Station (GMS), Electrical network.

3- Technical Advisor for Upstream Director (Executive Office); PM for Production Management Framework (PMF); (OMV Romania)

Pilot and roll out implementation of PMF in all OMV Romanian assets both onshore and offshore.

4- Senior Project Manager & Technical Lead for Flush-by Operations & Monitoring; (OMV Romania)

Well Workover and Well Intervention operations.

5- Senior Project Manager for Field Rejuvenations; (OMV Romania)

Workover and production optimization candidate selection, operations planning and field execution.

Instructor for Reservoir & Production Engineering topics and delivering several courses:

- PVT, SCAL, VFP, Multiphase flow meter

- Waterflooding
- Formation water management and analysis
- OFM
- Flow Assurance (Asphaltene, Wax/Paraffin, Scale, Hydrate, Sand Production, Corrosion, Erosion)

Jul 2012 – Dec 2013 **Senior Project Manager & Technical Lead; Field Rejuvenations (FRJ) & Production Optimization; (Schlumberger Romania, Responsible for Europe & Africa)**

- OMV Petrom; oil & gas fields production optimization including candidate selection, workover planning, field execution and supervision.
- Sonangol Angola revitalization project for Block 2 offshore fields including fields screening, production system evaluation, WO/WI candidate selection, planning and alignment with client.

Apr 2008 – Jun 2012 **Senior Project Manager & Technical Lead & Reservoir Domain Champion; (Schlumberger MEA)**

- Four months testing and courses of reservoir & production technical applications in Schlumberger technology center in Abingdon, UK.
- Instructor for Reservoir & Production Engineering topics and delivering several courses:
 - PVTi and ECLIPSE 300 (Compositional)
 - ECLIPSE 100 (Black oil)
 - Petrel_RE
 - PVT, SCAL, VFP
 - OFM
 - Pipesim
 - Multi-Phase Flow Meter (Vx)
 - Flow Assurance
 - GLO, Gas Lift Optimization, (Eclipse Advanced features)
 - Artificial Lift Design (Pipesim_Gas Lift and ESP)
- Full field studies for MEA clients, onshore and offshore, oil and gas fields.
- Reservoir domain champion for testing operation, fluid sampling and PVT analysis, perforation, multiphase flow meter (Vx), DST, downhole and surface well testing.
- **Project Leader** of **SPD12 Sector Modeling** in **Giant South Pars Gas Field**.
- **Project Leader** of **Perforation** Project for **Giant South Pars Gas Field**, SPD12, with 3 platforms, 36 wells (Wireline & Testing (CIRP/CT)).
- **Project Leader** of **Hydrate** Formation, Heater and Inhibitor Analysis for **Giant South Pars Gas Field**.
- **Project Leader** of **multiphase flow meter (Vx)** Project for **Darquian Oil Field (ENI operations)**, 20 wells, 155 kboe/d.
- **Project Leader** of Flow Assurance study for **Hengam Condensate offshore** field.
- **Reservoir & Production engineering** software support, Eclipse, Petrel_RE, Pipesim, Avocet IAM, Avocet WSM.
- Customer support and service delivery lead.
- Business development lead.

Feb 2005 – Mar 2008 **Operations Project Manager & Reservoir and Production Engineer; (Pars Petro Zagros, Iran) (Engineering & Services Co.)**

- **Reservoir engineer & Technical Lead** for NIOC **Samaneh Data Bank** project, PISDB; Petroleum Industry Samaneh Data Bank).
- **Supervision of well logging operation**, Petrophysical open hole logs, MDT, PLT, CBL/VDL.
- **Supervision of well testing and sampling operations**, downhole and surface separator tests and sampling, wireline operations, validation and approval process for oil and gas fields.
- **Reservoir engineer** of **Kish Gas Field** full field reservoir simulation study and Master Development Plan.
- **Reservoir engineer and petrophysist** of **North Pars Gas Field** full field reservoir simulation study and Master Development Plan.
- **Reservoir engineer** of **Jufeyr Oil Field** Management Consultancy for simulation study and Master Development plan.
- **Reservoir engineer** of **Dehloran Oil Field** Management Consultancy for simulation study and Master Development plan.
- **Reservoir engineer** of **Danan Oil Field** Management Consultancy for simulation study and Master Development plan.
- **Reservoir engineer** of **Mansouri Oil Field** Management Consultancy for simulation study and Master Development plan.

- Reservoir engineer and petrophysist of **Hendijan Oil Field full field** reservoir simulation study and Master Development Plan.
- Reservoir engineer of **Hengam Condensate Field** Management Consultancy for Master Development plan.

Feb 2005 – Mar 2008 Petrophysicist; (NISOC, Iran)

- Supervision of well logging operation, Petrophysical open hole logs, Resistivity, Sonic, Density, Neutron, GR.
- Petrophysical logs evaluation and interpretation.

Work Experience

More than 17 years experience in Business & Digital Transformation, Capital & Digital Project Management, Reservoir & Production Engineering increased my knowledge in the following areas:

- Strategy/Roadmap/Blueprint definition and implementation for business transformation
- Program & project management / Capital Project Management (Budget / Resource / Risk/Stakeholders / Change / Process / Communication / Quality / Procurement Management)
- Technology, People, Processes & Organization elements for business & digital transformation
- Operational excellence and production efficiency
- Business development management
- Sales & Marketing
- Full Field Reservoir Simulation
- Integrated Asset Modeling
- Surface/Subsurface Coupling
- Asset & Production Optimization
- Reservoir Characterization
- Reservoir Fluid Sampling, Fluid Properties & PVT Analysis
- Reservoir Rock Properties & Rock Type Analysis (RCAL, SCAL)
- Artificial Lift Design (ESP, Gas Lift, SRP, PCP, Jet, etc)
- Flow Assurance (Asphaltene, Wax, Hydrate, Scale, Erosion, Corrosion, Heat Transfer, Diamondoids)
- Perforation
- Multi-Phase Flow
- IOR & EOR
- Well Test Analysis and Simulation
- Material Balance
- Well Completion & Vertical Flow Performance
- Uncertainty Analysis
- Decline Curve Analysis
- Petrophysical Evaluation
- Separator tests
- Well testing Operation
- Well Logging Concepts

Software Experience

Working with different Analytical and Reservoir, Production and Petrophysical applications:

- Power BI, Tableau, Spotfire (Data Analytics)
- Python & R (Basics)
- Eclipse (Black oil & Compositional)
- Petrel-RE
- Avocet IAM (Integrated Asset Modeler)
- PIPESIM (Modeling Total Production System)
- Avocet WSM (Well & Surface Modeler, ESP & Gas Lift Design)
- SPAN (Schlumberger Perforation Analysis Software)
- Merak, PEEP (Petroleum Economics Evaluation Program)
- OFM (Oil Field Manager-Production Analysis, Forecasting)
- SCAL (Special Core Analysis Software)
- VFPi (Vertical flow performance software)
- PVTi (Eclipse phase behavior software)
- Winprop (CMG PVT analysis software)
- PVTsim (PVT simulation software)
- MI-PVT (PVT simulation software, Tie-tech co.)

- IMEX (CMG black oil simulation model)
- Saphir (Kappa Well Testing Analysis Software)
- Crystal Ball (Risk and Uncertainty Analysis software)
- @RISK (Risk and Uncertainty Analysis software)
- Microsoft Office (Excel, Word, Power Point, Access and Outlook)

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