



PERSONAL INFORMATION

Mohamed Halafawi Yehia Mohamed El-Gindy



 Bld Bucuresti nr 39, 100680 Ploiesti (Romania)

 00400738525943

 Halafawi_2008@yahoo.com
Halafawi2008@gmail.com
Halafawi_2008@eng.cu.edu.eg
Halafawi@cu.edu.eg
Halafawi@upg-ploiesti.ro

 <https://www.facebook.com/mohamed.halafawi.5>

 Halafawi_2008@yahoo.com

Sex M | Date of birth 25/10/1988 | Nationality Egyptian

WORK EXPERIENCE

- October 2011 – October 2014 **Research Assistant**
Cairo University, Egypt
Teaching petroleum courses, graduation projects and lab. work
- January 2013 – December 2014 **Drilling Engineer & Operator**

POSS Co. (Petroleum Oil Services & Supplies Co.), Egypt
Part time job
Casing circulating packers, habitat system, casing cutter, jars, drill collars, shock subs
- October 2014 – now **Teacher Assistant**

Cairo University, Egypt
Undergraduate Studies
Teaching petroleum courses and laboratory work
oil well drilling(II&III), well control, well completions & workover operations, well stimulation, formation evaluation and reservoir characteristics, petroleum fluids transportation and storage, gas field processing (I&II), oil and gas production engineering artificial lift (gas lift, sucker rod pumping, ESP, PCP, and jet pump)
- October 2015 – October 2017 **Lecturer**
Cairo University, Egypt
Gas Production Engineering Diploma
Teaching courses, graduation projects and lab. work
- October 2015 – October 2017 **Professor Assistant**
Cairo University, Egypt
Gas Production Engineering MSc & Petroleum Engineering MSc
Teaching courses, research projects and lab. work
oil well drilling(II&III), well control, well completions & workover operations, well stimulation, formation evaluation and reservoir characteristics, petroleum fluids transportation and storage, gas field processing (I&II), oil and gas production engineering artificial lift (gas lift, sucker rod pumping, ESP, PCP, and jet pump)
- 2019 –2020 **Concrete Pump Operator**
DIB company, Romania
Concrete Pump Putzmeister (BSA 1005 D3B C & P 715 TD/SD)

EDUCATION AND TRAINING

- October 2018 – Jan 2021 **PhD in Drilling, Extraction and Transportation of Hydrocarbons** 10
Petroleum-Gas University of Ploiesti, Romania
Supervisor: Prof. Dr. Lazăr Avram
1st Report: " Actual Study of Risk Assessment and Integrity of Drilling Wells" GPA: (10/10)
2nd Report: "Analytical And Numerical Simulation of Wellbore Stability and Optimization" GPA: (10/10)
3rd Report: "Development Models With New Analytical Solutions for studying Offshore Production and Drilling Platforms and Units"
Pre-PhD year: GPA:(10/10), July 2018
Admission Exam: Passed with GPA: (10/10)

PhD Thesis about: "New Contributions Regarding Wellbore Stability and Trajectory Optimization in Elasto-Plastic Rock Behaviour and Offshore Units Stability"
 Pre-PhD courses: Fluids mechanics (10/10), drilling engineering (10/10), drilling engineering management (10/10), geophysical & hydrodynamic investigations (10/10), and ethics & academic integrity (10/10).

October 2011 – August 2014 **MSc in Petroleum Engineering** Excellent
 Cairo University, Egypt
 Petroleum Engineer

Supervisor: Prof. Dr. Abdel Waly Abdallah Abdel Waly
 Pre-master year: GPA:3.3, July 2012
 Master thesis title: "An Integrated Model Predicts the Performance of Combination Drive Reservoirs"
 Pre-master subjects: Selective topic in reservoir engineering, advanced production engineering, advanced drilling engineering, gas production technology, formation evaluation & reservoir characteristics, exploration, geology and underground water

October 2006 – August 2011 **BSc in Petroleum Engineering** Excellent
 Cairo University, Egypt

Cumulative grade: Excellent with honour degree (GPA:3.5), Rank: 2nd out of 100 students
 Date of graduation: July, 2011
 B.Sc. project grade: Excellent, Rank: 3rd out of 100 students
 Graduation project: Geology analysis, well logging analysis, well test, surface facilities, drilling prognosis, reservoir analysis & management, production analysis for black oil reservoir (Aghar field, Western Desert concession, AGIBA petroleum co.)

October 2003 – June 2006 **General Secondary School Certificate** Excellent
 Aghor high school, Egypt
 GPA percentage 98%, Rank: 1st

2005 – 2010 **Summer Training & Work in Egypt**

- VITRAC and HERO companies for nourishment, summer working, 2005 till 2008
- Summer training course in workshop and labs., faculty of engineering, Cairo University, summer 2007
- OFFSHORE SHUKHAIR OIL co.,1-week, OSOCO field, the Red Sea, summer 2008:(oil field processing, platform production, offshore wells)
- PRI (Petroleum Research Institute), all labs, 4-weeks, summer 2009: (production lab., refining lab., drilling fluids lab., petrochemical lab.)
- EL WASTANI PETROLEUM co., 11-days, Damietta, summer 2009: (shut down in gas field processing, onshore wells, equipment maintenance)
- EI-MANSURA co., 2-weeks, El-Mansura, summer 2009:(gas & oil field processing; witnessed a perforation job, drilling, gas lift, well testing, and starting LPG)
- AGIBA co., 1-week, Meleha field, Western Desert, summer 2010: (oil field processing, sucker rod pump, drilling rig, workover rig)
- BP (British Petroleum co.), 4-weeks, drilling & completion dept., office training, summer 2010 :(Drilling performance & benchmarking study project)
- PETROGULF co.,10-days, Elzeit Mountain field, summer 2010: (oil field processing, ESP, offshore wells)
- GUPCO co., 2-weeks, all petroleum depts., office training, simulation programs, summer 2010
- RASHID PETROLEUM co., 2-weeks, completion & reservoir depts., office training, summer 2010

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
TOEFL CERTIFICATE IELTS CERTIFICATE					
Romanian	B2	B2	B2	B2	B2
ROMANIAN LANGUAGE CERTIFICATE FROM UPG					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ good communication skills acquired from my various jobs experience as teacher, lecturer, and engineer

Organisational / managerial skills ▪ leadership, diversity, responsibility, and team work

Job-related skills ▪ good command of troubleshooting, upset conditions, risk assessment, and quality control processes

Other skills ▪ Painting and building construction

DIGITAL SKILLS

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- ICDL (International Computer Driving License), 2008
- Eclipse (reservoir simulation), principles
- VBA (Programming Visual Basic Languages)
- IPM (Integrated Production Modeling), GAP, PROSPER, MBAL, PVTP, REVEAL, RESOLVE, Open Server
- Paradigm Sysdrill® v2009-drilling software
- Pipesim Simulation, principals
- Directional Drilling Software
- Drilling Software
- Landmark Software

Driving licence -

ADDITIONAL INFORMATION

- Honours and awards**
- SCHLUMBERGER Award for scientific excellence, December, 2009
 - SCHLUMBERGER Award for scientific excellence, January, 2011
 - SCHLUMBERGER Award for the best graduation project, January, 2012
 - Cairo University Award, petroleum engineering dept. for scientific excellence and precipitation in the celebration of the day of the Dept., March 2010
 - Welfare Organization for Human Development and Social Services Awarded in Egypt for scientific excellence and my activity In voluntary work in my city, August, 2011
 - The Egyptian Armed Forces honour as Optimal Soldier, 2012

- Memberships**
- Member of Gate family, 2009
 - Member of SPE international since 2010
 - Member of SPE, Cairo students' chapter, 2009 till now
 - Member of AGIR (Asociația Generală a Inginerilor din Romania), 2019 till now

- Presentations
Projects
Conferences
Seminars**
- Represented BP (British Petroleum Co.) in the International Conference on solid waste management and society which opened by the Ministry of Environment (Dr. Maged George), December 2010
 - Received a grant Sawiris foundation for six months in English courses, communication skills courses, job hunting & C.V. writing, and most of human resource courses, 2011
 - Attended SPE workshop in Halliburton Co. workshop about formation evaluation, direction drilling, coiled tubing & cementing, 2011
 - SPE Scribe member in "Deep Water Drilling Workshop" established in JW Marriot Hotel, Egypt, November 2016
 - Supervising on 10 graduation projects (Semester & Credit Hours Portal Systems) from 10 different Egyptian petroleum companies in Egypt, Cairo University, Faculty of Engineering "CUFE" since 2013 till 2017

- Courses** Giving short courses for petroleum engineers:
- Introduction drilling, offshore and onshore operations course for Nigerian engineers in AASTMT (Arab Academy for Science Technology & Maritime Transport) in Egypt
 - Drilling well engineering and constructions, some petroleum companies in Egypt
 - Taking some advances courses in petroleum engineering, Cairo University:
 - Well control in production operations and well services,
 - Advanced well stimulation
 - Rock mechanics and drilling risk management
 - Advanced drilling engineering (HPHT drilling, UBD, rock mechanics, and wellbore stability)
 - Advanced gas reservoir engineering & well testing

ANNEXES

REFERENCES WILL BE FURNISHED UPON REQUEST

Publications

1. Mohamed Halafawi, Lazăr Avram.: "New Analytical Solutions for Wellbore Stability Using Cavitation Theory ,” (not submitted)
2. Mohamed Halafawi, Sameer Younus, Lazăr Avram.: "Deepening and Converting High Deviated Well to ERD Well," *Petroleum and Coal Journal*, 2020. (submitted)
3. Mohamed Halafawi, Sameer Younus, Lazăr Avram.: "Novel Technique to Achieve Plug Bumping in Long horizontal and ERD wells," *Oil and Gas Journal*, 2020. (submitted)
4. Mohamed Halafawi, Lazăr Avram, Ayham Mhanna, El Dilbani Ali, "Integrated risk assessment improves Colibasi field drilling performance", *Oil and Gas Journal*, USA, 118(9), 50-55, sep. 9, 2020.
5. Moamed Halafawi, Ayham Mhanna, Lazar Avram, "The Impact of Marine Environment on Jackup Rig Stability," *Petroleum and Petrochemical Engineering Journal*, USA, 4(5), 1-16, 2020. DOI: 10.23880/ppej-16000238
6. Sameer Younus, Hussein El Gburi, Mohamed Halafawi, Lazar Avram., "A comparative Approach to Differentiate Between the Amount of Rock Cuttings Generated in ERD and Conventional Drilling," *Petroleum and Coal journal*, 62(4):1346-1355, October 2020.
7. Mohamed Halafawi, Alin Diniță, Lazar Avram," Numerical Wellbore Stability for Vertical and Deviated Wells Using Finite Element Method," *Romanian Journal of Petroleum and Gas Technology*, Issue 1, 2021.
8. Mohamed Halafawi, Lazăr Avram, "Elastic-Plastic Solutions for Analyzing Wellbore Stability, *Romanian Journal of Petroleum and Gas Technology*, Issue 1, 2021.
9. Mohamed Halafawi, Lazăr Avram, "Analytical Solutions for Wellbore Stability using Linear and Non-Linear Elastic Rock Behavior," *Petroleum and Coal Journal*, 2021.
10. Mohamed Halafawi, Osama Sharafaddin, Abdulhussein Fadhil, Lazăr Avram, "Casing Pipe Integrity Analysis and Evaluation Using Multi Finger Imaging Tool (MIT)-Case Studies," *Petroleum and Coal journal*, 2020.
11. Horatiu Raul Olar, Mohamed Halafawi , Lazar Avram: Investigating dynamic analysis of well performance producing using production logging tool, *Petroleum and Coal Journal*, 2020
12. Horatiu Raul Olar, Mohamed Halafawi, Petru Constantin Gherman, Lazar Avram: "Physical-Chemical Laboratory Experiments Regarding Rehabilitation of Gas Well During Winter Periods by Introducing Automatic Devices and Foam Agents," *Journal of Petroleum Science and Engineering*, 2020
13. Mohamed Halafawi, Hussien Al Gburi, Hassan Al Gburi, Lazăr Avram.: "Dignostic and Performance Analysis of Drillstring Vibrations in Zubair Field," *Romanian Journal of Petroleum and Gas Technology*, 72(2), 2020, p. 23-35.
14. Robert-Valentin Dinu, Mohamed Halafawi, Dinu Florinel, Lazăr Avram.: "A comparative model to differentiate between the production from vertical and horizontal wells in Bilciuresti gas field," *Petroleum and Coal journal*, 62(4), 2020, p.1523-1532.
15. Mohamed Halafawi, Ayham Mhanna, Lazăr Avram.: "Tackling Wellbore Difficulties for Drilling Deviated and Horizontal Wells ,” *Journal of Engineering Sciences and Innovation, Petroleum and Mining Engineering Section (F)*, 6(1), 2021.
16. Mohamed Halafawi, Nawar Abdulrahman, Lazăr Avram.: "External and Internal Cathodic Protection of Storage Oil Tanks,” *Journal of Engineering Sciences and Innovation*, 5(4), 2020, pp. 315-328.
17. Mohamed Halafawi, Lazăr Avram.: "Anti-Collision System Management Improves The Development Well Placement, *EMERG* 6(2), 9-23, 2020. DOI: 10.37410/EMERG.2020.2.01
18. Mohamed Halafawi, Lazăr Avram.: "Complex BHA Mechanics and Performance Optimization for Horizontal Wells,” *Petroleum and Coal Journal*, 62(3):858-875, July 2020,
19. Mohamed Halafawi, Dan Rădăcină, Lazăr Avram.: "Casing Wear Prediction In Horizontal Wells,” *Petroleum and Coal Journal*, 62(2): 395-405, 2020.
20. Mohamed Halafawi, Mohamed Tahair, Marian Wiercigroch, Lazăr Avram.: "Optimum Well Trajectory Design Based on Numerical Optimization Method PSO Algrithm and Wellbore Stability,” *Petroleum and Coal Journal*, 62(1) 114-128, 2020.
21. Mohamed Halafawi, Hussien El Gabouri, Lazăr Avram, "Offset-well data improve Zubair wellbore stability", *Oil and Gas Journal*, 118(1), Jan. 6, 2020.
22. Mohamed Halafawi, Mima Charif, Lazăr Avram, "Hazards Identification and Quality Control for LNG Plant", *Petroleum and Coal Journal*, 2019. (accepted)
23. Mohamed Halafawi, Ayham Mhanna, Mima Charif, Lazăr Avram, "Troubleshooting Identification and Upset Conditions Effect of LNG Plant", *Petroleum and Coal Journal*, 62(1): 220-232, 2020.
24. Mohamed Halafawi, Ayham Mhanna, Mima Charif, Lazăr Avram, "Troubleshooting Identification and Upset Conditions Effect of LNG Plant", *Recent Adv Petrochem Sci.* 2018; 6(5): 555697. DOI: 10.19080/RAPSCI.2019.06.555697
25. Mohamed Halafawi, Ayham Mhanna, Flornil Dinu, Lazăr Avram, "Compositional Simulation for Gas Condensate Wells: Țintea – ASTRA Field Study," *Revista de Chimie*, 71 (3), 466-479, 2020
26. Halafawi DIM, Avram DIL. Wellbore instability prediction and performance analysis using Poroelastic modeling. *J Oil Gas Petrochem Sci.*(2019);2(2):93-106. DOI: 10.30881/jogps.00028
27. Mohamed Halafawi, Stan Marius, Lazăr Avram.: "Prediction Modeling for Platforms' Network Vessels Performance,” *Petroleum and Coal Journal* (2019); 61(5): 983-997, ISSN 1337-7027.
28. Mohamed Halafawi, Lazăr Avram.: "Borehole Insitu Stress Stability Analysis of RBS-9 Field Utilizing the Inversion Technique,” *Journal of Engineering Sciences and Innovation, Petroleum and Mining Engineering Section (F)*, ISSN: 2601-6699 [Print], ISSN: 2537 – 320X [Online], Vol. 4, Issue 1 / 2019.
29. Mohamed Halafawi, Lazăr Avram.: " Wellbore Trajectory Optimization For Horizontal Wells: The Plan Versus The Reality,” *Journal Oil Gas Petrochem Science*, ISSN: 2630-8541, 2019;2(1):49-54. DOI: 10.30881/jogps.00024
30. Mohamed Halafawi, Lazăr Avram.: "Trajectory Optimization for Drilling Long Horizontal Wells,” *The International Scientific Conference dedicated to oil and gas researches entitled "The Exploration and Exploitation oil and gas reservoir: present and perspectives" published by Petroleum-Gas University of Ploiesti Bulletin, Technical Series*, 71 (1), 72-79, 2019.
31. Mohamed Halafawi, Lazăr Avram.: "Wellbore, BHA, Motor / Rotary Steerable, and Bits Statistical Performance Analyses for Drilling Horizontal Wells,” *The International Scientific Conference dedicated to oil and gas researches entitled "The Exploration and Exploitation oil and gas reservoir: present and perspectives" published by Petroleum-Gas University of Ploiesti Bulletin, Technical Series*, 71 (2), 47-54, 2019.
32. Mohamed Halafawi, Lazăr Avram.: "Application of Risk Analysis in Drilling Well Problems and Operations - Field Case Study,” *Journal of Engineering Sciences and Innovation, Petroleum and Mining Engineering Section (F)*, ISSN: 2601-6699 [Print], ISSN: 2537 – 320X [Online], Vol. 3, Issue 4 / 2018, pp. 393 – 404.
33. Mohamed Halafawi, Lazăr Avram.: "Application of Risk Analysis in Drilling Well Problems and Operations - Field Case Study,” *The International Conference of Energy and Environment – major challenges of the 21st century*, Proceedings of the 13th Edition of the Annual Conference ZASTR 2018, UPG Ploiesti, Romania , ISSN 2066-6586, AGIR Publishing House, 18-19 October, 2018.
34. Mohamed Halafawi, Lazăr Avram.: "Well Integrity, Risk Assessment and Cost Analysis for Petroleum Fields and Production Wells with CO2,” *International Journal of Innovations in Engineering and Technology (IJJET)*, *Petroleum Engineering Section*, ISSN: 2319-1058, Vol.10 Issue 4 July 2018. DOI: <http://dx.doi.org/10.21172/ijjet.104.07>
35. Mohamed Halafawi, Abdel Waly A. A.: "Prediction Modeling for Combination Drive Reservoir Performance,” *Advances in Petroleum Exploration and Development Journal*, Canada, ISSN: 1925-542X [Print], ISSN: 1925-5438 [Online], 2018; 16(1), 1-23. DOI: <http://dx.doi.org/10.3968/10614>

36. Mohamed Halafawi, "Predicting the Combination Drive Reservoirs Performance," NOOR Publishing House, German, ISBN-13: 978-3-330-96727-4, ISBN-10: 3330967277, 16 May, 2017
37. Mohamed Halafawi, "An Integrated Model Predicts the Performance of Combination Drive Reservoirs", Master Thesis Dissertation, MPM, Faculty of Engineering, Cairo University, September, 2014