

# Curriculum Vitae

## Personal Information

Name: Anas Alsiddig Yousif Mohammed Ahmed

Place & Date of Birth: AlBaha, Western Province, Saudi Arabia (September 26, 1989)

Gender: Male

Nationality: Sudanese

Marital Status: Married and have two daughters

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## Academic Qualifications

August 2011: Bachelor of Science (Honours) in Petroleum Engineering – University of Khartoum, Sudan – First Class (Overall score: 8.15 out of 10).

Modules studied over 5 years include: Mathematics, Programming Languages, Principles of Geology, Petroleum Geology, Well Logging, Well Testing, Reservoir Engineering, Production Engineering, Drilling Engineering, Waterflooding, Enhanced Oil Recovery (EOR), Oil Transportation and Storage, Petroleum Economy and Reserve Engineering.

Prizes awarded:

1. Schlumberger Overseas prize for outstanding achievement in the academic year 2010-2011.
2. Faculty of Engineering prize for the best student in the total result of final examination second year.

January 2017: Master of Science in Petroleum Engineering – King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia (Overall score: 3 out of 4).

## Professional Qualifications

- Society of Petroleum Engineers SPE professional member (ID: 4498354)
- Sudanese Engineering Council member (Graduate engineer – ID: ES/PE/GE/31385).
- Association of Energy Engineers AEE young professional member.

## Appointments held

**September 2011 to December 2012:** Teaching assistant at the Department of Petroleum and Natural Gas Engineering, Faculty of Engineering, University of Khartoum, Sudan.

**May 2017 to January 2018:** Cooperative lecturer at the Department of Petroleum and Natural Gas Engineering, Faculty of Engineering, University of Khartoum, Sudan.

**January 2018 to Now:** Full-time lecturer at the Department of Petroleum and Natural Gas Engineering, Faculty of Engineering, University of Khartoum, Sudan.

**January 2020 to October 2022:** Department head of Petroleum and Natural Gas Engineering, Faculty of Engineering, University of Khartoum, Sudan.

**August 2017 to March 2021:** Academic supervisor for the Diploma graduation projects at Department of Petroleum Engineering, Sudan University of Science and Technology, Sudan.

**July 2022 to Now:** Faculty advisor of the SPE University of Khartoum student chapter.

**September 2022 to Now:** Faculty mentor of the AEE University of Khartoum student chapter.

## Experience

### A) Teaching:

**September 2011 to December 2012:** Prepared tutorials and assignments for the students in Geology, Reservoir Engineering.

**May 2017 to Now:** Prepared the full material with lectures, assignments and exams for the Well Testing Analysis and Seminar courses.

### B) Administrative and Secretarial tasks:

**September 2011 to December 2012:** Prepared and extracted certificate transcripts for the pre-graduated and graduated students.

### C) Research:

#### Bachelor graduation project:

- My final graduation project for pursuing the Bachelor degree studying was concerned about conducting a geochemical exploration experiment.
  - A new method of gas survey was proposed. An experiment of this method has been conducted in Sennar state in Sudan to examine its validity and effectiveness. The method proposed is simple in terms of tools and procedures. The objective was to verify the existence of hydrocarbon accumulation in a specific area by collecting and analyzing gas seepage.

#### Master research:

- My master research was about improving the oil well cement integrity using a synthetic fiber.
  - The usage of fibers within oil well cements at high pressure and high temperature are being examined. Those fibers will be added into cement with discrete amount to show their influences on enhancing the performance of cements especially those relate to the toughness. Experimental studies are being performed using distinct cement slurry characteristics such as rheological properties, stiffening time, compressive

strength ,free water content, density, porosity and permeability, SEM, XRD to select the most appropriate and optimized cement mixture that be used for that purpose

- I worked in several assignment and projects in petroleum engineering issues such as Field Development Planning (FDP) in V-field in the North Sea and the surge and swab pressure calculation optimization in the drilling process.

**Research interest:**

1. Drilling Engineering.
2. Reservoir Engineering.
3. Geochemistry.
4. Well Testing

**Supervision of Diploma and Bachelor graduation projects:**

- Development of an Environmentally-Friendly Drilling Fluid Using Natural Materials (Date, Lalob seeds) (Diploma graduation project) (2017).
- Addition of Nano-Zinc Oxide for Enhancement of the Drilling Fluid Properties. (Diploma graduation project). (2017)
- Drilling Fluid Design Using Molasses (Bachelor graduation project). (2018)

**D) Field Experiences:**

**June 2017 to July 2017:** Office and field training at the Sudanese Petroleum Cooperation, Ministry of Petroleum and Gas, Khartoum, Sudan.

**September 2018 to January 2019:** Office and field training at the Greater Nile Petroleum Operation Company (GNPOC), Khartoum, Sudan.

**Languages and Special Skills**

- Arabic (Native) and English (Fluent speaking and good writing – IELTS score = 6 in 2012)
- Good communication skills, adaptable for the teamwork and works efficiency in high pressures.
- **Computer skills:**
  - Microsoft Windows.
  - Internet Browsing and Research.
  - Microsoft Office (Word, Excel, PowerPoint and Publisher).
  - Programming Languages (Pascal, C, Visual Basic, MATLAB)
  - AutoCAD (2008).
  - WellFlo 3.8.4 Production optimization simulator software.
  - KAPPA SAPHIR Well testing software.
  - Schlumberger Eclipse 100 Reservoir Black Oil Simulation software.
  - CMG-IMEX Black Oil Simulator.
  - Schlumberger Techlog Wellbore information software

### Conference attendance, courses, workshops and Seminars

- **April 2009 and April 2011:** Attended and participated in the Engineering Week activities in Faculty of Engineering, University of Khartoum, Sudan.
- **September, October 2011:** Attended in many courses in Engineering Training and Professional Development Program such as AutoCAD, Microsoft Office software at Faculty of Engineering, University of Khartoum, Sudan.
- **30<sup>th</sup>–31<sup>st</sup> January 2012:** Participated in Sudan Petroleum International Conference and Exhibition (SPICE) that had been held in the Friendship Hall, Khartoum, Sudan as an exhibition committee member.
- **28<sup>th</sup> May 2013:** Attended a seminar for KAPPA well testing presented by the chairman of the company in Manama, Bahrain.
- Attended many short courses for the petroleum engineering field in King Fahd University of Petroleum and Minerals from 2013 to 2017.
- **7<sup>th</sup>–9<sup>th</sup> February 2016:** Attended a training course for CMG-IMEX modelling software at Petroleum Engineering Department – KFUPM.
- **20<sup>th</sup>–23<sup>th</sup> March 2016:** Attended a training course for Techlog wellbore modelling software at Petroleum Engineering Department – KFUPM.
- **September, October 2017:** Attended in many training sessions in the higher education teaching methods, technology and ethics at Khartoum University for Advanced Training Center, Omdurman, Sudan.

### Publications

- **Ahmed, A.**, Elkhatatny, S., Gajbhiye, R., Rahman, M. K., Sarmah, P., Yadav, P. (2018). *“Effect of Polypropylene Fibers on Oil-Well Cement Properties at HPHT Condition”*. Society of Petroleum Engineers. doi:10.2118/192187-MS.
- **Ahmed, A.**, Gajbhiye, R., Elkhatatny, S., Kalimur Rahman, M., Sarmah, P., Yadav, P. (2018). *“Enhancing the Cement Quality Using Polypropylene Fibers”*. Society of Petroleum Engineers. doi:10.2118/191189-MS.
- Mohamednour, F., Saeed, M., **Ahmed, A.**, (2019). *“Modeling of Chemical Water Shut off Treatments”*. Petroleum and Chemical Industry International ISSN: 2639-7536. doi: 10.33140/PCII/02/01/02
- Elkhatatny, S., Gajbhiye, R., **Ahmed, A.**, Mahmoud, A. A., (2019). *“Enhancing the cement quality using polypropylene fiber”*. Journal of Petroleum Exploration and Production Technology. Springer Nature. doi:10.1007/s13202-019-00804-4.
- Almadhaji, A., Saeed, M., Ibrahim, H., **Ahmed, A.**, Maher, R. (2021). *“Enhancing Rheological Properties and Reduction of Total Acid Number of a Heavy Crude Oil Using Ethanol and Trona”*. Society of Petroleum Engineers. doi:10.2118/205621-MS.
- Adam, A. M., Mohamed Ali, A. A., Elsadig, A. A., and **Ahmed A. A.** (2022). *“An Intelligent Selection Model for Optimum Artificial Lift Method Using Multiple Criteria Decision-Making Approach.”* Society of Petroleum Engineers. doi:10.4043/31482-MS