

# Omar Bakelli

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## EDUCATION

**PhD of Environmental Engineering** **Aug. 2027**  
*University of Utah, Salt Lake City, UT*

**Master of Engineering in Petroleum Engineering**  
**Aug. 2023** *University of North Dakota, Grand Forks, ND*  
**Topic:** Optimize Produced Water Management in the Williston Basin, North Dakota

**Master of Hydrogeology** **Jun. 2018**  
*University of Kasdi Merbah, Ouargla, Algeria*  
**Topic:** Hydrogeological Study of The Lower Devonian Aquifer in the Illizi Region, Algeria

**Engineer of Geological Engineering** **Sep. 2013**  
*University of Kasdi Merbah, Ouargla, Algeria*  
**Topic:** Evaluation of Shale Gas Potential in the Ahnet Basin, Algeria

**Applied Studies Degree of Hydrogeology** **Jun. 2010**  
*University of Es-Senia, Oran, Algeria*  
**Topic:** Design and Drilling of Water Wells, Hassi Messoud Region, Algeria

## PROFESSIONAL EXPERIENCE

**Graduate Research Assistant** **Aug. 2023 – Present**  
*Energy & Geoscience Institute EGI, University of Utah, Salt Lake City, UT*

- Conduct research on carbon capture, utilization, and storage
- Contribute to state and government' funded research projects.

**Graduate Teaching Assistant** **Jun. 2021 – Jul. 2023**  
*University of North Dakota, Grand Forks, ND*

- Assist the instructor with course material's preparation
- Communicate with students and assist with research projects
- Exam proctoring and assignments grading
- Courses assisted with: Enhanced Oil Recovery, Research Design, Laboratory 1, Reservoir Simulation

**Drilling Fluids Engineer** **Aug. 2015 – Jun. 2021**  
*Baroid Algeria Halliburton Company, Hassi Messaoud, Algeria*

- Mix, analyze and treat fluids during drilling and completion operations
- Managed fluid related operations and lead a team of 10 employees
- Assisted in critical field operations: gas kick control, downhole fluid losses mitigation and stuck pipes freeing
- Prepared daily technical and financial reports and ran problem investigations and solutions proposal
- Coordinated with company supervisors and customers to ensure the quality of service and product delivery

**Drilling Fluids Engineer Intern** **Sep. 2014 – Aug. 2015**  
*AVA Algeria a Newpark Company, Hassi Messaoud, Algeria*

- Completed the mud school training with excellence
- Assisted the drilling fluid lead engineer with mud operations and analyses

**Geologist Engineer** **Dec. 2013 – Jun. 2014**  
*EPTPG, Ghardaia, Algeria*

- Technical and administrative management of company aggregate quarries
- Prospect new quarry sites and supervise geological and reserves evaluation studies
- Represent the company service in various authorities to insure the respect of government laws and regulations
- Interim project manager of a road construction project in charge of surveying timeline, quality and budget

## INTERNSHIP EXPERIENCE

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<b>Geoscientist Intern</b> <i>ENAGEO, Boumerdes, Algeria</i> <ul style="list-style-type: none"><li>Assisted with seismic data processing and 2D and 3D cube interpretation</li><li>Reconstructed the burial history of oilfield and characterized source rock</li></ul>	<b>Summer 2020</b>
<b>Water Chemical Analyst Intern</b> <i>National Water Laboratory, Ghardaia, Algeria</i> <ul style="list-style-type: none"><li>Collected water samples from field and ran chemical analysis in laboratory</li><li>Analyzed the data and generated interpretation and hydrochemical maps</li></ul>	<b>Summer 2018</b>
<b>Mud Logger Specialist Intern</b> <i>Weatherford, Hassi Messaoud, Algeria</i> <ul style="list-style-type: none"><li>Worked on cutting samples description and drilling parameters measurements</li><li>Prepared daily technical reports and communicate with company representatives</li></ul>	<b>Summer 2011</b>

## NOTABLE PROJECTS

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<b>PE 579: Advanced Numerical Reservoir Simulation</b> <ul style="list-style-type: none"><li>Generated a geothermal dynamic reservoir model and developed plan for heat extraction</li><li>Conducted economic analysis to determine the best approach</li><li>Coordinated with a team member, ensuring the project met deadlines and requirements</li></ul>	<b>Aug. 2021</b>
<b>AAPG: Imperial Barrel Award</b> <ul style="list-style-type: none"><li>Completed an exploration study on a seismic and geological data to identify potential prospects</li><li>Communicated effectively with team members to meet competition specifications and deadlines</li><li>Presented the project, passed the local round, and won the third place in the regional round</li></ul>	<b>Apr. 2020</b>

## LEADERSHIP EXPERIENCE

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<b>Company Representative</b> <i>Baroid Company, Hassi Messaoud, Algeria</i> <ul style="list-style-type: none"><li>Presented the company's service and activities at the university expo</li><li>Mentored workshop on drilling fluids technology at the university</li><li>Assisted students' organizations to insure funding and sponsorships</li></ul>	<b>Feb. 2019</b>
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## TRAINING AND CERTIFICATION

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<b>Core Logging Workshop</b> <i>NDIC Core Library, Grand Forks, ND</i>	<b>Aug. 2021</b>
<b>Fundamentals of Data Analytics</b> <i>NEXT Schlumberger, Grand Forks, ND</i>	<b>Jul. 2021</b>
<b>Online Stimplan User's Course</b> <i>NSI Technologies, Online</i>	<b>Jul. 2021</b>
<b>Advanced Drilling Fluids School</b> <i>Baroid Halliburton, Hassi Messaoud, Algeria</i>	<b>Mar. 2019</b>
<b>Project Management Training</b> <i>BCOS School, Algiers, Algeria</i>	<b>Mar. 2016</b>
<b>HSE Induction Training</b> <i>AVA a Newparrk co, Hassi Messaoud, Algeria</i>	<b>Aug. 2014</b>
<b>Basic Drilling Fluids School</b> <i>AVA a Newpark co, Hassi Messaoud, Algeria</i>	<b>Aug. 2014</b>
<b>First Aid Training</b> <i>Algerian Red Crescent, Ghardaia, Algeria</i>	<b>Aug. 2012</b>

## CAMPUS INVOLVEMENT

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**President**, American Rock Mechanics Association, University of Utah Chapter

**Sep. 2023 – Present**

**Membership Chairperson**, *Society of Petroleum Engineers, UND*

**Apr. 2018 – Aug. 2023**

**Member**, *American Association of Petroleum Geologists, UND*

**Jan. 2020 – Aug. 2023**

**Member**, *American Institute of Chemical Engineers, UND*

**Sep. 2021 – Aug. 2023**

**General Secretary and Founder**, *Society of Petrophysicists and Well Log Analysts, UND*

**Nov. 2021 – Aug. 2023**

## SKILLS

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**Programming Languages:** Python, MATLAB

**Software:** CMG, Petrel, IHS Markit, Stimplan, PhreeqC, ArcGIS, PIPESIM, Combo Curve