

# Oscar Daniel Hernández Mendoza

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## SUMMARY

Reservoir and Production technologist engineer with extensive experience in oil and gas industry, specializing in reservoir characterization, pressure transient analysis, and nodal analysis. Proficient in machine learning, data science, and programming languages such as Python, C++, and Fortran. Skilled in using industry-standard software like Olga, Pipesim, and SAP Products for enhanced oil recovery and production optimization.

## EXPERIENCE

**Master Course: Borehole Geophysics 1: Tools and Applications | University of Hamburg** **04/2024 to 07/2024**

- Studied drilling and coring techniques, depth measurement, and quality control.
- Analyzed gamma ray, electrical resistivity, rock density, and seismic velocities.
- Conducted case studies to apply geophysical tools in borehole applications.

**Prototype Developer | Oil Pixels** **10/2021 to 04/2024**

- Developed open source web apps for managing oil and gas data using AI and machine learning.
- Utilized technologies such as PHP, SQL, Python, CSS, HTML, and JavaScript.
- Created digital twin models for oil facilities in virtual reality to monitor and control operations.

**Master of Engineering | Facultad de Ingeniería de la UNAM** **08/2015 to 04/2018**

- Specialized in reservoir engineering, focusing on reservoir characterization and management.
- Conducted research and analysis to optimize oil and gas production.

**Master of Engineering candidate course | Facultad de Ingeniería de la UNAM** **03/2015 to 04/2015**

- Learnt math propedeutic course for candidates of Master of Engineering.

**Reservoir Engineer | Petrofac** **09/2014 to 09/2014**

- Analyzed drilling, completion, and production history to identify improvement opportunities.
- Recommended workovers, stimulation, and drilling for production enhancement.

**Consulting services on the Abkatun Pool Chuc PEMEX's asset | Schlumberger** **01/2014 to 08/2014**

- Determined permeability, skin factor, and influence radius using production type curves.
- Utilized software like Topaze nl and Kappa for analysis.

**Production Engineer | Schlumberger** **03/2011 to 08/2014**

- Provided consulting services to optimize oil production on mature oilfields.
- Reactivated wells using Schlumberger's technology and field management software.
- Conducted reservoir characterization and production analysis using software like PIPESIM, OLGA, and OFM.
- Increased production in Ogarrío oil field from 1000 bopd to 15,000 bopd, through nodal analysis, material balance and petrophysics

## EDUCATION

**Master of Engineering - MEng, Petroleum Reservoir Engineering | Universidad Nacional Autónoma de México** **2015 to 2018**

Specialized in reservoir engineering, focusing on reservoir characterization, evaluation, and management for optimized oil and gas production.

**Petroleum Engineer, Earth Sciences | Universidad Nacional Autónoma de México** **2006 to 2010**

Studied petroleum engineering with a focus on earth sciences, covering topics such as petrophysics, geomodelling, and offshore drilling.

## SKILLS

**Reservoir Characterization**

**Pressure Transient Analysis**

**Nodal Analysis**

**Machine Learning**

**Python (Programming Language)**

**Oil and Gas Drilling**