

Sigfrido Nielsen



Founder & Director – Geoinfo SRL

Geologist | Applied Geophysics | Subsurface Characterization | AI & Machine Learning Applications

Professional Summary

Senior Geologist and Geophysicist with nearly four decades of experience in hydrocarbon exploration, subsurface characterization, and the application of advanced technologies for geological and geophysical interpretation. Pioneer in the digital transformation of subsurface data analysis, with extensive expertise integrating seismic, geological, and petrophysical data using artificial intelligence and machine learning techniques. International consulting experience across Argentina, Latin America, and Africa.

Professional Experience

Founder & Director – Geoinfo SRL | 1993 – Present

- Founded and led a consulting company specializing in subsurface characterization for the oil and gas industry.
- Introduced and promoted the Kingdom® interpretation software throughout Argentina and Latin America, providing both commercial support and specialized technical training.
- Managed multidisciplinary consulting projects integrating seismic, geological, and well data for exploration and reservoir development.
- Pioneered the application of artificial neural networks to open-hole well log interpretation in the late 1990s, anticipating today's machine learning methodologies.
- Expanded AI-based workflows during the 2000s to integrate seismic and geological information for hydrocarbon exploration and field development.

Geoscience Applications Engineer – Company Landmark Graphics (now Halliburton) | 1991-1993

- Provided technical support and advanced interpretation solutions for geoscience software used in hydrocarbon exploration and production.

Interpretation Geophysicist – Company YPF | 1987-1991

- Began professional career as an interpretation geophysicist, working on seismic interpretation and subsurface evaluation for hydrocarbon exploration.

Education

- **B.Sc. in Geology**, National University of Córdoba, Argentina (1985)
- **Postgraduate Diploma in Applied Geophysics for Hydrocarbon Exploration**, Faculty of Petroleum Engineering, National University of Mendoza, Argentina (1987)

Core Expertise

- Subsurface Characterization
- Exploration & Development Geophysics
- Seismic Interpretation
- Well log petrophysics
- Geological Modeling
- Artificial Intelligence & Machine Learning
- Artificial Neural Networks
- Seismic–Geological Data Integration
- Hydrocarbon Exploration
- Technical Consulting & Training