

# Anderson Mosquera Ruiz

## Personal Information

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Age: 25 years old

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## Professional Profile

Oil engineer knowledgeable in maximum hydrocarbon recovery through CMG reservoir simulator, (STARS module, GEM, CMOST, BUILDER, Results), Nexus, DecisionSpace, formulas and equations in spreadsheet; operation, requirements, costs and design of information systems, platforms for the control of material and human resources during each phase of the production process of oil and gas wells; design, operation and costs analysis in crude oil separation, treatment and reporting systems, technical and legal regulation knowledge in the field of transport and measurement of hydrocarbons.

Determined, independent, flexible person with good attitude and willingness to work, with ease to work in teams, with capacity for analysis and problem solving, follow-up of instructions, critical capacity, kindness and empathy.

## Skills

- Advanced Excel Level (Macros, VBA Programming, Dashboards, Advanced Power Pivot).
- Intermediate level of ASPEN HYSYS.
- Full stack developer in various Programming Languages (Matlab, Java, C++, C#, Python, VBA).
- Business Architect and Systems Architect using the Pega Systems.
- Microsoft Tools: Azure ML, Power BI, Access, Visual Studio for creating desktop applications.
- Advanced level of the Office Suite (SharePoint, Teams, Power BI).

Languages:

- Spanish: Native
- English: Advanced

## Recognitions

**Best of the Best – Top individual performance** – Scotiabank 2020

**Machin de Oro Award – Education and -Knowledge in Data Science** – SPE Colombian Section 2020

## Publications

Mosquera-Ruiz, A. (2020). Enfrentando el desafío del alto corte de agua en campos petroleros: causas, diagnóstico y mecanismo químico de control. Fuentes, el reventón energético, 18(2), 95-110.

<https://doi.org/10.18273/revfue.v18n2-2020006>

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## Work experience

### **Society of Petroleum Engineers – Colombian Section (March 2021 – Present)**

**Position:** Member of the Data Science Committee

**Functions:**

- Design of Learning activities for the SPE members.
- Logistic support during the development of the activities.
- Networking with Engineering Professionals willing to share their knowledge in Data Science.

### **Petroleum Engineering School (September 2019-February 2020)**

**Position:** Administrative Assistant in the Academic Coordination

**Functions:**

- Customer Service for Students and Professors.
- Documentary Management of the ABET accreditation process.
- Curricular design.
- Control of the academic plan.

**Achievements:**

As part of the Academic Coordination Team, I designed a Coreflooding team for which we got the approval for \$50,000,000 (COP) for its construction and installation in the Petrophysical Analysis Laboratories of the Petroleum Engineering School.

### **Petroleum Engineering School (April 2019-August 2019)**

**Position:** Teaching Assistant

**Functions:**

- Personalized Advice to the Students.
- Review of classworks and individual homework.
- Support for Teacher Activities.

**Achievements:**

Workshop Design, Qualification and Correction of exams. For this subject I designed and taught 2 Master Classes without the Teacher's company, based on my classes the students were qualified in a partial exam with a participation of 20% of the final grade of the subject.

### **ACEIP – Asociación Centro de Estudios de Ingeniería de Petróleos (April 2019-October 2019)**

**Position:** Leader of the Academic and Library Committee

**Functions:**

- Customer Service.
- Organization of the Library of the Association Center.
- Logistics Support in the Event Organization.

**Achievements:**

Creation of a Database with the Physical and Digital Books of the association (900 Physical and 400 Digital). Creation of a desktop application allowing the management of the Physical and digital assets of the organization.

## Academic Formation

### Petroleum Engineering

SANTANDER INDUSTRIAL UNIVERSITY

Grade: 4.00/5.00

Graduation March 2020

### Software Programming Technician

NATIONAL LEARNING SERVICE – SENA

(ongoing -Practical stage in April 2021)

### Systems Engineering

EAN

(expected graduation: 2023)

## Complementary Formation

### ✓ SENA

**Advanced Excel.** 2019(60 hrs)

**Implementation of OSH System.** 2019 (50 hrs)

**C++ programming language.** 2019 (Level I, 40 hrs. Level II, 40 hrs. Level III, 40 hrs)

**Microsoft Project.** 2020 (40 hrs)

**Computer-aided design using AutoCAD Civil 3D.** 2020 (40 hrs)

**Web development with PHP.** 2020 (40 hrs)

**Excel and Access for Administrative Applications.** 2020 (40 hrs)

**Controls and Cyber Security.**2020 (40 hrs)

### ✓ Landmark Learning

**Decision Space Nexus Getting Started.** 2019

**Nexus.** 2019

**Production Monitoring.** 2019

**Data Science using Python.** 2019

**DecisionSpace Production Engineering Suite Fundamentals-** 2020

### ✓ Mayorship of Bucaramanga - UIS

**Basic PYTHON3 programming.** 2019 (20 hrs)

**Basic MATLAB programming.** 2019 (20 hrs)

**Basic JAVA programming** 2019 (20 hrs)

### ✓ CMG

**Introduction to CMG's Modelling Workflows.** 2019 (24 hrs)

**CMOST for Thermal Applications.** 2019 (16 hrs)

**Automated History Matching & Optimization using CMOST.** 2020 (8 hrs)

**Polymer Injection.** 2020 (8 hrs)

**Simulation of Phase Behavior Using Winprop.** 2020 (8hrs)

**How to model integrated surface-subsurface systems using CoFlow.** 2020 (16 hrs)

**Geomodelling for Reservoir Engineers.** 2020 (16 hrs)

### ✓ University of Helsinki

**Fundamentals of artificial Intelligence.** 2020 (60 hrs)

**Building AI.** 2020 (60 hrs)

### ✓ LinkedIn Learning

**Learning Data Governance.** 2020

**Access 2019 Essential Training.** 2020

**Advanced Microsoft Power BI.** 2020

**Excel Business intelligence – Power Query.** 2020

**Excel Business intelligence – Data Modelling 101.** 2020

**Excel Business intelligence – Power Pivos and DAX.** 2020