

OSCAR ROMAN

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EDUCATION

The University of Texas at Austin Bachelor of Science, Petroleum Engineering May 2025
Overall GPA: 3.86

EXPERIENCE

UT Austin PGE SURI – *Research Intern*; Austin, TX June 2024 – August 2024

- Simulate well designs and placements for CO₂ storage in saline aquifers to test theoretical models from 7 related research papers
- Utilize CMG Builder, GEM, and WinProp to design and execute 2D reservoir models through self-designed fluid models, reservoir properties, and well trajectories and showcase how unconventional drilling techniques are effective for CO₂ storage
- Implement Python-based code to calculate necessary based on formulas interpreted from CO₂ storage research papers and debug preexisting test files for deconstruction and integration into final simulations.

Chevron Corp. – *Wells Intern*; Houston, TX May 2023 – August 2023

- Develop a business case for the Wells Decision Support Center within the Chevron Technical Center to integrate and centralize near real-time frac monitoring into the current infrastructure on the three service levels of performance, engineering, and process safety
- Utilize Corva, Well Data Labs, and WellView to monitor and analyze the current drilling and completions real-time activities
- Create a presentation through PowerPoint to showcase business case through engagement proposals, value drivers, tools required, and Organizational Capabilities descriptions to senior engineers and key stakeholders

Roman Completion Tools LLC – *Service Operator & Bookkeeper*; Quitman, TX May 2017 – Current

- Assist packer handlers with tool assembly and pressure testing of tools such as packers (AS1-X, M1-X, Snapset II, HD) for usage on wells of depths ranging from 4500 ~ 11500 feet deep, i.e., a 4-1/2" x 2-3/8" AS1-X packer 7K (9.5-13.5#) w/ carbide slips
- Disassemble and scour salvageable tools using acid baths and power wash and deliver completion tools to rig site weekly
- Authorize and invoice major business purchases and consult with contractors to discuss operations' tool types and prices
- Compile and process records of ~\$1,340,000 in assets, supplies, and inventory and ~\$2,720,000 in sales onto Excel and QuickBooks to file 6 years' worth of federal business taxes and enter all field tickets and invoices onto Excel and OpenInvoice

LEADERSHIP EXPERIENCE AND ACTIVITIES

Society of Petroleum Engineers – *President (Summer 2024 – Spring 2025)* Fall 2021 – Present

- Schedule and execute all general meetings, lunch & learns, and networking events with corporate or departmental sponsorship
- Manage and budget internal account of ~\$55,000 with treasurer to ensure all events are properly funded
- Act as a company liaison and maintain company relations to fundraise or garner donations to properly fund SPE events and trips and create opportunities for the petroleum engineering student body to network with industry leaders

Energy A.I. 2025 PGE Hackathon – *Completions Domain Expert* January 2025

- Played a key role as the domain expert in completions, specifically frac operations, in a 5-member team that ranked 4th overall (of 15 final teams), 1st place in presentation ranking and 3rd place in goodness ranking with a goodness score of 0.894.
- Develop machine learning workflow in Python to predict energy usages during hydraulic fracturing for 50 wells using 1083 unique well data points. Utilized two models (DecisionTreeRegressor and Linear Regression) with bagging and incorporated Scikit-learn pipelines to streamline preprocessing and modeling sequences

BPX ML Challenge 2024 – *Artificial Lift Domain Expert* March 2024 – April 2024

- Collaborate within a 4-member team to generate a machine learning, analytical Python workflow for a set of 70 real world wells containing 205 Electrical Submersible Pumps (ESPs) to predict failure windows and dates for any given ESP
- Develop complex, multivariable features using 91 ESP data features through feature engineering, modifying artificial lift mathematical models, and utilizing general production knowledge to maximize high correlation of given features

HONORS

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- Petroleum Engineering Honor Program Fall 2022 – Present
 - Cockrell School of Engineering College Scholar Fall 2023 – Spring 2024
 - University Honors (6 semesters) Fall 2021 – Spring 2024

ADDITIONAL INFORMATION

Computer Skills: CMG Builder, CMG GEM, CMG WinProp, Python, MS Excel, Power BI, OpenInvoice, Enverus PRISM

Certificates: ComboCurve: Deal Evaluation (2024), Enverus Certified Specialist: Prism Energy Analytics and Benchmarking (2024)

Languages: Fluent in English, Conversational in Spanish

Interests: 2D and 3D Art, Hunting, Sewing