Victor Jose Benavides

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EDUCATION

Texas A&M University College Station, TX
Bachelor of Science in Petroleum Engineering May 2026

EXPERIENCE

Texas A&M University – Harold Vance Department of Petroleum Engineering College Station, TX
Research Student Assistant May 2025 - Current

- Executed 25+ acid fracture conductivity and long-term fracture conductivity experiments, directly comparing conventional hydrochloric acid and retarded acid systems to evaluate reaction kinetics, fracture etching behavior, and stimulation effectiveness in tight-rock formations.
- Operated, calibrated, and quality-checked high-pressure pumps, pressure transducers, flow meters, and core-flooding equipment, ensuring reliable acquisition of high-pressure flow data during extended test runs.
- Took ownership of laboratory test readiness by assembling, inspecting, and maintaining experimental setups, identifying leaks, equipment faults, and setup deficiencies prior to and during testing to ensure safe and consistent operation.
- Contributed to the Long-Term Fracture Conductivity Decline Study, analyzing Permian Basin downhole cores propped with 100-mesh sand to quantify fracture-width reduction, stress cycling behavior, and conductivity loss at closure stresses ranging from 4,000 to 6,000 psi.
- Prepared, evaluated, and handled unconventional rock samples, exercising judgment to reject damaged or unsuitable cores in order to protect data integrity and prevent skewed experimental results.
- Analyzed experimental results and connected laboratory observations to reservoir-scale performance, strengthening understanding of fracture conductivity degradation, stress sensitivity, and long-term production behavior in unconventional wells.

LEADERSHIP

Texas A&M University – Department of Residence Life College Station, TX
Resident Advisor August 2022 - Current

- Provided front-line leadership for a residential community of 40+ students, exercising sound judgment in resolving conflicts, diffusing high-tension situations, and making time-critical decisions while upholding university safety and conduct policies.
- Responded to, assessed, and documented policy violations, wellness concerns, and emergency incidents using established protocols; demonstrated strong risk-mitigation awareness, situational analysis, and consistent adherence to safety procedures.
- Coordinated closely with professional staff, emergency services, counseling teams, and campus partners to ensure rapid communication, accurate reporting, and effective follow-through on student and facility issues.
- Managed complex administrative tasks, including incident reports, maintenance requests, occupancy logs, and compliance documentation with high accuracy and confidentiality, consistently meeting deadlines while balancing academic, leadership, and crisis responsibilities.
- Fostered a supportive and inclusive community environment by organizing programs that encouraged student engagement, well-being, and academic success, contributing to improved community satisfaction and residential retention.

Texas A&M University – Department of Residence Life College Station, TX
Conference Assistant May 2023 – August 2025

- Supported daily logistical operations for large-scale university conference housing, coordinating guest access, facility readiness, and rapid issue resolution to maintain high service and safety standards.
- Maintained comprehensive operational logs, documenting room inspections, guest interactions, maintenance needs, and service requests, ensuring clear accountability and seamless follow-through across teams.
- Led and coordinated team-based inspection and maintenance workflows, ensuring rooms, equipment, and facilities met operational, cleanliness, and safety requirements before guest arrivals.
- Held overnight responsibility for university equipment, facility security, and emergency communication systems, demonstrating strong reliability, situational awareness, and readiness in time-sensitive or high-pressure incidents.

SKILLS & ACTIVITIES

Languages: English

Technical Skills:

- **Engineering Software & Simulation Tools:**
  CMG Reservoir Simulation Suite (Builder, CEDIT, IMEX, Results, CMOST) • tNavigator Geology Designer • CoViz4D Data Visualization & Analysis • Techlog Wellbore Software • Virtual PVT Phase Behavior Cell (Phase Equilibria Simulation) • DOSBox Reservoir Simulation Software • Enverus Software
- **Technical & Laboratory Skills:**
  High-Pressure Flow Testing • Reservoir Characterization • Core Sample Preparation & Analysis • Hydraulic Fracturing / Acidizing & Stimulation Testing • Geomechanical Sample Handling • Laboratory Experiment Design & Execution
- **Data & Analytical Skills:**
  Microsoft Excel (Proficient) • Data Visualization & Technical Reporting • Experimental Data Interpretation • Troubleshooting & Root-Cause Analysis • Process Optimization • Performance Trend Analysis • Quantitative Problem-Solving
- **Engineering Communication & Professional Skills:**
  Technical Communication • Cross-Team Coordination • Documentation & Quality Control • Presentation of Engineering Findings
- **Safety & Compliance:**
  Safety Protocol Adherence • Hazard Identification • Risk-Mitigation Practices • Operational Safety & Compliance Awareness

Certifications & Training:

- Enverus Certified Associate - PRISM™ Platform & Industry Insights
- whitson+ RTA Software Certification
- MTA: Introduction to Programming Using Java
- MTA: Introduction to Programming Using JavaScript

Activities:

- Strengthening technical communication and public-speaking skills through live broadcasting with KANM Student Radio, operating audio equipment, and engaging diverse audiences in real time.
- Gained exposure to drilling operations, well-control fundamentals, and safety best practices through AADE workshops, reinforcing an understanding of operational risk management in upstream environments.
- Actively engaged in SPE technical seminars, networking events, and professional development programs, building industry connections and expanding knowledge of modern upstream engineering challenges and technologies.