Agustin Villegas Flores

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EDUCATION

Texas A&M University — **College Station, TX**
B.S. in Petroleum Engineering, Minor in Geology | GPA: ***2.7*** — *December 2027*

Houston City College — **Houston, TX**
C1 in Welding Technology | GPA: ***3.4*** — *June 2023*

EXPERIENCE

Patterson-UTI (NexTier Completion Solutions) — **Midland, TX**
Power Solutions Field Engineering Intern — *May 2026 – August 2026*

- Supported CNG and field gas operations through gas delivery, pressure regulation, CNG/field gas blending, commissioning, and troubleshooting at up to **13 MMSCFD** of flow.
- Led the restoration and recommissioning of a **$500 M** Pressure Reduction System (PRS) rated up to **2.9 MMSCFD** of flow through troubleshooting, pressure and flare testing, equipment modifications, data analysis, and startup.
- Developed pad-specific job designs based on equipment requirements, available space, field gas availability, field gas quality, CNG demand, operating conditions, and customer specifications.
- Worked with PRS units, stationary and portable compressors, SDH skids, CNG trailers, EJT field gas skids, ESD skids, and booster trailers supporting gas conditioning, compression, recycling, and pressure control.
- Reviewed P&IDs, process flow diagrams, SCADA trends, and operating data to troubleshoot pressure and flow issues, support process optimization, and assist with NGL handling and transfer.
- Performed pressure testing, leak detection, inspections, maintenance, and field modifications in accordance with company HSE procedures, customer requirements, and applicable regulatory standards.

Talos Energy — **Tarantula Platform South Timbalier 308A, Gulf of America/Mexico**
Offshore Operations Engineering Intern — *May 2025 – August 2025*

- Supported offshore production across **8 dry-tree wells** and **2 subsea tiebacks**, including integration and flowback of a **3rd subsea well** that increased platform production by **~4 MBOED** and **~7.5 MMSCFD** of gas.
- Evaluated well performance, fluid properties, production rates, GOR, pressures, temperatures, and facility capacity to optimize production, identify processing constraints, troubleshoot flow variances, and determine how changing well conditions could be accommodated by existing platform facilities.
- Gained hands-on experience with oil processing and treating operations using low- and intermediate-pressure separators, crude oil heaters, degassers, treaters, and heat exchangers to remove produced gas and water while maintaining BS&W below **1%** and interacted with the LACT unit used for crude oil metering and custody transfer.
- Worked with gas conditioning and compression systems including glycol dehydration units, flash gas compressors, scrubbers, filters, coolers, and vapor recovery units, developing an understanding of how produced gas is conditioned, compressed, recovered, and prepared for export.
- Maintained facility reliability through preventive maintenance, instrument calibration, troubleshooting, and process adjustments, contributing to unplanned downtime below **0.5%** while gaining experience with offshore HSE requirements, BSEE and BOEM regulations, and P&A operations.

In-N-Out Burger — **Stafford, TX**
Level 4 Store Associate — *February 2022 – Present*

- Oversaw front- and back-of-house operations in a high-volume store servicing over **1500** customers daily.

INVOLVEMENT & LEADERSHIP

American Association of Drilling Engineers (AADE) — **College Station, TX**
Treasurer — *April 2026 – Present*

- Managed a **$25,000+** budget, dedicating **12** hours weekly to coordinate financial planning supporting professional development events, networking opportunities, and member engagement initiatives for **300+** student members.

Society of Petroleum Engineers (SPE) — **College Station, TX**
Technical Development Committee Member — *August 2023 – Present*

- Contributed to the Technical Development Committee by organizing workshops, training sessions, and study materials to support member professional & technical growth within the industry.

CERTIFICATIONS & TECHNICAL SKILLS

Certifications: Excel/Tableau Specialist Certification, H_2S Safety Certification (ANSI/ASSE Z390.1-2017), IADC RigPass, IWCF Level 1 Certificate, Personnel Transfer Basket/Swing Rope, and Tropical HUET with Shallow Water (CA-EBS–5194)
Technical Skills: Blueprint/P&ID Reading, Customer Relations, Microsoft Office Suite, PI Vision, Python, SLB OneSubsea, Tableau, Torchmate Software, Welding (MIG, SMAW, FCAW), and Wonderware