Nathaniel Lozano

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EDUCATION:

Texas A&M University, College of Engineering — **College Station, TX**

Bachelor of Science, Petroleum Engineering | GPA: 2.81 | Major GPA:3.00 — *Expected Graduation: December 2027*

EXPERIENCE:

SETLD Information Solutions - Petroleum Engineering Data Analyst Summer Internship: — **Alvin, TX**

Summer Intern - Data Analyst / GIS Analyst / Dev. & Systems Team — *May 2026 – August 2026*

- Supported development of SETLD's TOTTEM market intelligence model through **data analysis, GIS mapping, software development, and systems optimization** as part of a **12 member intern team**.
- Built, cleaned, and validated **100+ well and asset records per day** using production, completion, geographic, and subsurface data to support E&P client and competitive intelligence analysis.
- Applied GIS and spatial analysis to map up to **40 wells per play, 4 leases, 3 U.S. acreage positions, and 10 pipeline assets per day**, supporting acreage evaluation, operator positioning, and daily updates to the TOTTEM Product for consumers.
- Investigated and **corrected up to 80 daily data inconsistencies** across petroleum datasets, improving the **accuracy and reliability of data within SETLD's analytical systems**.
- Used Python, Excel, and ArcGIS to **manipulate, analyze, validate, and visualize large scale petroleum and geographic** datasets while collaborating with development, systems, GIS, and Data focused teams.

PioPetro Foundation - Petroleum Engineering Drilling Summer Internship: — **Houston, TX**

Summer Intern - Drilling Engineering & Petroleum Geology / Applied Geophysics — *July 2026 – September 2026*

- **Completed a 6 week global industry sponsored program** covering drilling engineering, petroleum geology, applied geophysics, well intervention, production, and reservoir management.
- Engaged with engineers from **4 major oilfield service companies Halliburton, NOV, SLB, and Baker Hughes** to examine drilling technologies, equipment, field operations, and operational challenges.
- Participated in **12+ live well intervention sessions** with the **University of Cairo**, examining intervention methods, operational challenges, safety concerns, and well performance considerations.
- Evaluated drilling challenges involving **wellbore stability, formation pressure, drilling parameters, hydraulics, and equipment selection**, developing engineering based approaches to improve operational efficiency and mitigate risk.

Da-Jiang Innovations (DJI) - Mechatronics Engineering RoboMasters Internship: — **Shenzhen, China**

Summer Intern - Maintenance & Repair Crew / Sentry Robot Co-inventor / Mechanical Team Lead — *June 2024 – July 2024*

- Competed in **DJI RoboMaster International Robotics Competition** as part of a **24 member Texas A&M team**, designing and optimizing robots for high speed technical challenges over the course of **35 days**.
- Collaborated **12+ hours/day** on mechanical design, fabrication, system integration, testing, and troubleshooting of autonomous robotic systems. Validated robot performance through **50-round projectile accuracy tests at 5 m**.
- Led **mechanical design and system integration** of the Sentry robot within a **100 W chassis power limit**, balancing drivetrain performance, structural integrity, weight, and power consumption.
- Developed hands on expertise in **mechatronics, embedded systems, autonomous robotics, and rapid engineering problem solving** under high intensity competitive conditions.

INVOLVEMENT & LEADERSHIP:

International Association of Drilling Contractors (IADC) - TAMU Chapter Treasurer: — **College Station, TX**

Executive Treasurer Officer of IADC / Committee Chair Coordinator — *April 2025 – Present*

- Managed the chapter's **$15,000 budget** and financial planning for a **100+ member organization**, overseeing expenses, **2 IADC Committees**, and funding for professional development events, networking opportunities, and attendance at **3 IADC conferences annually**.

Society of Petroleum Engineers (SPE) – TAMU Chapter: — **College Station, TX**

Drillbotics Committee Member / Career Development Committee Member / Tailgate Committee Member — *August 2023 – Present*

- **Dedicated 10+ hours/week** as **Hardware Team Lead** on a **5 person Drillbotics team,** with a **$5,000 budget** leading mechanical system design for a fully autonomous drilling rig and representing Texas A&M **at the IADC/SPE Drilling Conference**.
- **Organized 4–5 career development events per month**, including technical workshops, training sessions, and study resources, supporting professional and technical development for SPE members; coordinated tailgate events **serving hundreds of members and guests throughout the semester**. Dedicating overall **~8 Hours per week** to both respective committees.

American Association of Drilling Engineers (AADE) - TAMU/Houston Chapter — **College Station, TX**

Organization Member — *August 2025 – Present*

- Attend **10+ technical workshops and industry lectures each semester** and **complete 2 annual rig tours**, building applied knowledge in drilling operations, well control, rig safety culture, and new emerging drilling technologies.

CERTIFICATIONS & TECHNICAL SKILLS:

Certifications: IWCF Level 1 certification, OSHA 10 certification, Certified Instructor Autodesk Inventor, and Excel Certified

Software skills: Onshape, Autodesk Inventor, Python, PVT Simulator, Machine Learning, Shell SOPE Software Program, TOTTEM Entry Software, PowerPoint, Excel, Microsoft Word, ARCPro GIS

Technical Skills: Residential remodeling and mechanical repair, 3D printing, Lathe, Mill, Sander, and Bandsaw operation, Metal and Wood Machining/Precision Manufacturing