

# Declan Kennedy

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## EDUCATION

### Texas A&M University

Jan 2024– May 2027

*Objective: Bachelor in Science, Petroleum Engineering, Petroleum Ventures Program Certificate.*

- GPA: 3.60

## EXPERIENCE

### Harold Vance Department of Petroleum Engineering

Jun 2024– Dec 2024

*Undergraduate Student Researcher*

*College Station, Texas*

- Developed test datasets and trained an existing machine learning model for real-time drilling fluid monitoring, replacing industry-standard testing (1-3 times daily) with continuous data collection. This improvement enhanced consistency, response time, and automation, reducing manual workload for the mud engineer.
- Conducted 1-2 test data cycles daily, refining model predictions and adapting to real-time variations in fluid properties, which led to more accurate monitoring and faster response times.
- Created a flow control system over 3 months using a proportional valve and Python code, automating adjustments to maintain 1 GPM within  $\pm 2\%$  accuracy, saving 18 minutes per test.
- Faced technical challenges configuring the 4-20mA control loops and wiring, and learned to integrate the Python library for the Raspberry Pi Hat to control the valve. With minimal documentation available, I documented the process thoroughly to improve system understanding and reliability.

### Campion Hall

Aug 2022– May 2023

*Theater Director, Assistant Teacher*

*Montgomery, Texas*

- (Assistant Teacher) Served as an instructional leader, conducting twice-weekly sessions for 20 students over a full semester. Strengthened communication skills through weekly on-call sessions from mid-term and a 2-week intensive rehearsal phase to enhance stage readiness.
- (Director) Led a semester-long production for 15 students, demonstrating strong leadership in organizing rehearsals and guiding performers. Fostered effective communication through twice-weekly rehearsals, extra on-call sessions from mid-term, and a final month of focused preparation to elevate performance quality.

## LEADERSHIP EXPERIENCE

### Student Member | TAMU-SPE

Jan 2024–Present

- Chaired an AI session, leading a Q&A with 200 participants to promote interactive learning.
- Gained industry exposure through the ConocoPhillips Externship with office tours and presentations.
- Represented the petroleum department at the 1st-Gen Student Engineering Fair.

## SKILLS

- **Industry Knowledge:** Reservoir & Drilling Engineering, Data Analysis, Petrophysics, Petroleum Economics
- **Tools and Technologies:** Python, Excel, Xlwings, Cash Flow Modeling, Decline Curve Analysis
- **Interpersonal Skills:** Team Collaboration, Critical Thinking, Leadership, Public Speaking, Communication

## ACHIEVEMENTS

### Joe B. Foster '56 Student Paper Contest: 3rd in Room

Jan 2025

*Texas A&M University*

*College Station, Texas*

### David P. Smay Scholarship

Jun 2022

*Chevron Federal Credit Union*

*Montgomery, Texas*

## VOLUNTEER OPPORTUNITIES

### Young Adult Group Co-founder | CPL

Jun 2023– Present

- Organized community events, improving teamwork and project management skills through networking and event planning.