

Alexander GW Smith

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EDUCATION

Texas A&M University, Mays Business School

Master of Business Administration

College Station, Texas

Expected Graduation: August 2027 | Available Full-Time: June 2027

Texas A&M University, College of Engineering

Bachelor of Science in Industrial Engineering

Minors: Engineering Project Management & Math

College Station, Texas

May 2026

GPA: 3.62/4.0

EXPERIENCE

Oil City Iron Works

Foundry Utility Intern | Process Improvement & Digital Transformation

Corsicana, Texas

June 2026 – July 2026

- Mapped and documented 10+ cross-functional foundry workflows, improving process transparency and enabling collaboration with customers to align production processes with specifications
- Interviewed 20+ supervisors, managers, engineers, and operators to capture institutional knowledge and identify manual processes, cross-departmental handoffs, and opportunities for digitalization
- Digitized and analyzed one week of melting operations data across 14 variables using Excel PivotTables and developed a digital scheduling template to support the transition from manual workflows to future ERP implementation
- Synthesized operational observations and presented improvement opportunities to plant management, providing an independent perspective that supported priorities for digital transformation and long-term operational improvement

Texas A&M University

Teaching Assistant

College Station, Texas

August 2024 – December 2024

- Supported a Python programming course of 81 students by mentoring, hosting office hours, and grading.

PROJECTS

Merlion Advisory Group

Senior Capstone Project

College Station, Texas

January 2026 – May 2026

- Coordinated with a four-member team, faculty advisor, company sponsor, and professors to develop a digital framework integrating LiDAR and SONAR data for maritime security
- Conducted concept generation, risk, and economic analyses to evaluate alternative solution approaches
- Designed workflow diagrams illustrating end-to-end data collection, processing, and sensor fusion
- Communicated recommendations through four client presentations, a 55-page technical report, and a final project showcase, translating technical and economic analyses into actionable insights

École Nationale Supérieure d'Arts et Métiers

International Research Intern

Aix-en-Provence, France

May 2025 – July 2025

- Selected as 1 of 9 Texas A&M engineering students to conduct international manufacturing research
- Developed CATIA and ProCAST simulation models and automated temperature data processing with VBA and Java Script to create thermal heat maps identifying potential die hot spots
- Investigated predictive methods for detecting die degradation in high-pressure die casting through simulation modeling and data analysis; presented findings and recommendations to faculty through a 25-page report and 30-minute presentation

LEADERSHIP & INVOLVEMENT

Texas A&M Club Tennis, College Station, Texas | Officer

August 2022 – May 2026

- Managed biweekly practices, supported club operations, recruited new members, and competed in intercollegiate events

Professional Brotherhood of Engineers (PBE), College Station, Texas | Member

January 2023 – May 2026

- Recruited 50+ members by building relationships with prospective students and promoting professional development

SKILLS, CERTIFICATIONS & LANGUAGES

Languages: French (Conversational), Spanish (Conversational)

Technical Skills: Data Analytics, Java, Minitab, Microsoft Excel, Python, Simio, Statistics, SQL, VBA

Certifications: Six Sigma Green Belt (2026), Data Center Operations (2026)

Professional Affiliations: Alpha Pi Mu Honor Society, Institute of Industrial & Systems Engineers (IISE) – Texas A&M

Interests: Collegiate Sports, Global Travel, Graphic Design, Personal Fitness, Photography, Pickleball, Professional Tennis