Matthew Owen

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EDUCATION

Texas A&M University, Mays Business School — College Station, Texas
Master of Business Administration — August 2026

Texas A&M University, College of Engineering — College Station, Texas
Bachelor of Science, Electrical Engineering — May 2025
Minor in Mathematics

EXPERIENCE

Los Alamos National Laboratory — Los Alamos, New Mexico
Undergraduate Intern II, Sigma (Σ) Division — May 2023 – May 2025

- Improved alloy production efficiency by 800% by redesigning copper hearth component, used in the manufacturing process
- Optimized a high-vacuum system used in the alloy fabrication process, reducing the probability of defects in the samples by 5%
- Engineered and developed over 40 arc-melted metal alloys of various compositions to generate training data for an AI model aimed at predicting mechanical properties
- Delivered and presented detailed reports to senior-level management, recommending improvements regarding manufacturing processes

Los Alamos National Laboratory — Los Alamos, New Mexico
Undergraduate Intern I, Sigma (Σ) Division — May 2020 – May 2023

- Optimized the production process of radioimmunotherapy isotopes by assisting in the development of a reliable supply chain for cancer treatment applications
- Performed forging operations and safely handled radioactive materials, including uranium and thorium, using Integrated Safety Management (ISM) skills
- Developed design improvements for a microwave furnace that melts Uranium and other hazardous materials

PROJECTS

Senior Capstone Design — College Station, Texas
Project Manager — August 2024 – May 2025

- Led a team of four in developing a wired gas monitoring device for livestock facilities, achieving over 95% successful data transmission to a custom web dashboard
- Fabricated and tested four custom printed circuit boards with over 100 components that converted 120V AC to DC, ensuring reliable sensor performance and stable Wi-Fi communication
- Programmed an ESP-32 microcontroller to integrate sensor inputs and enable system functionality

LEADERSHIP

Texas A&M Fly Fishing Club — College Station, Texas
Vice President/Founding Officer — August 2023 – May 2025

- Led fly fishing excursions for the club, which ranged from 50 to 100 members each semester
- Established the first Trout Unlimited (TU) Costa 5 Rivers Club Program in the state of Texas and expanded TU chapters to three additional universities in Texas
- Increased membership by 50% through various recruitment events including fly tying nights, casting clinics, and informational booths

SKILLS, AWARDS, & INTERESTS

Clearance: DOE Top Secret Q Clearance
Technical Skills: C++, Python, Altium, LTSpice, Verilog, ARM v8, Microsoft Excel, Multisim, MatLab
Awards: ENGR MBA Program Scholarship, LANL Spot Award
Interests: Golf, Fly Fishing, Hunting, Camping, Hiking