

Vinitha Karnati

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EDUCATION

Texas A&M University, Mays Business School
Master of Business Administration

College Station, TX
May 2026

Texas A&M University
Bachelor of Biomedical Engineering
GPA: 3.88/4.0

College Station, TX
May 2025

Honors: Craig and Galen Brown Engineering Honors, Deans Honor Roll

EXPERIENCE

ICN2 (Institut Català de Nanociència i Nanotecnologia)

Barcelona, Spain

Data Analyst Intern

May 2024 – Aug 2024

- Led transition from manual biosensor analysis to a fully automated Python-based system, cutting evaluation time by 50% and improving trial consistency.
- Analyzed performance data and identified key design inefficiencies; guided development of a new diagnostic prototype, cutting costs by 30% and saving \$150K annually.
- Created technical PowerPoint presentations to support team-wide adoption of the software solution.

NASA

College Station, TX

Product Development Intern, Aggie Eco Project

April 2023 – July 2023

- Conducted performance testing on 5+ ultrasound gel formulations under simulated lunar conditions; identified a cost-effective material that optimized usability by 60%.
- Developed a wearable device with a cross-functional team; delivered testing insights that led to a 40% boost in system reliability and directly influenced final design decisions.

Senior Capstone Project

College Station, TX

Position Title, Group Name if Appropriate

June 2017 – December 2018

- Led a 6-person team in developing a multifunctional balloon stent; implemented 15+ design iterations based on clinician feedback to improve usability and clinical adaptability.
- Managed project timeline and stakeholder alignment through 10+ data-driven presentations; used SolidWorks and trial testing to boost device performance by 25%.

LEADERSHIP & INVOLVEMENT

Society of Women Engineering

College Station, TX

Education Officer

Aug 2021 – May 2025

- Managed a team of 10 students to deliver STEM outreach programs in Bryan-area schools, resulting in 40% increase in student engagement in events.
- Directed SWE Fest planning and execution, engaging 200+ attendees and securing community partnerships to promote STEM education and career awareness among underrepresented youth

Department of Neuroscience and Experimental Therapeutics A&M College of Medicine

Bryan, TX

Undergraduate Researcher

Aug 2022 – May 2025

- Primary author of the paper, “Epigenetic Histone Deacetylases Activity Assay in the Brain and Peripheral Organ Tissues,” accepted documenting novel findings and advancing understanding in the field.

SKILLS, ACTIVITIES & INTERESTS

Languages: Conversational proficiency in Spanish, Hindi, Telugu

Technical Skills: Python, SolidWorks, Microsoft Office Suite (Excel, Word, PowerPoint, Power BI)

Certifications & Training: Deloitte Salesforce Bootcamp – CRM Tools and Business Application

Interests: Travelling, Hiking, Running Half Marathons