

Grant Gowdy

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Education

Texas Tech University

BS Mechanical Engineering, Minor in Mathematics, Summa Cum Laude (3.97 GPA) May 2017
MS Mechanical Engineering, Mechanics and Materials Concentration (4.0 GPA) May 2019
Thesis: Effect of Microstructure Arrays on Boundary Layer Separation

Work Experience

Texas Tech University: Bio-Inspired Mechanical Systems Lab January 2018 - Present

Research Assistant

Assisted research in experimentation setup, model construction and data analytics for the engineering of bio-inspired nanostructures and nano-films in order to study their effects on passive flow control and bio-inspired adhesives

L-3 Mission Integration

Structural Engineering Intern June 2017 - December 2017

Work alongside the flight science team in a project-based team environment to design, analyze and qualify airplane modifications and payloads to retrofit aircraft for Intelligence, Surveillance, and Reconnaissance systems; extensive use of Common Data Format software

Senior Design Project August 2016 - May 2017

Through sponsorship of The Halliburton Company, designed and built an industry-first test environment and control system to test a flare stack pilot light's environmental endurance as designated by API standards; designed and developed data acquisition and display system; documented results

Real World Forensic Engineering, LLC Intern January 2016 - May 2017

Conducted forensic research, analyses, experimentation and engineering report writing on various engineering failure events to determine the root cause and fault related to a clients' legal needs

Engineering Course Tutor August 2015 - December 2015

Assisted students in the understanding and application of Dynamics and related material

Texas Department Of Transportation

Engineering Intern, Brownwood District Summer 2014, Summer 2015

Assisted design engineers in the early design phases of future roadway projects; led survey team; worked with District Surveyor to retrieve/process data using MicroStation Information Modeling Software

Academic Honors

Presidential Scholarship
Texas Tech University Honors College

Professional Memberships and Extracurricular Activities

ASME Texas Tech Student Section

Alpha Lambda Delta & Phi Eta Sigma Honor Societies

Community Service Activities

Lauro Cavazos & Ophelia Powell-Malone Mentoring Program Fall 2018 - Present

Study Abroad: Atacama Engineering Immersion Experience December 2016 - January 2017

Lived and studied alongside Chilean engineering students to learn about the engineering challenges and interests of the Chilean culture

Study Abroad: Living Water International Volunteer May 2015

Established successful water well for a remote village in the rain forest of El Salvador; operated drilling rig with air and mud drilling; provided hygiene education.

Co-authored tourism book

“Small Town Living-Big Town Pride: What to See and Do in and Around Early, Texas”

Texas Parks and Wildlife Hunter Education Assistant

Coached new and veteran hunters and shooters to be safe, responsible, and knowledgeable.