

Yousef Saleh

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EDUCATION

Master of Science, Mechanical Engineering, April 2022
Florida State University

Tallahassee, FL

Bachelor of Science, Aerospace Engineering, December 2018
The University of Texas at Austin

Austin, TX

EXPERIENCE

Graduate Research Assistant, Florida State University **08/2019 – present**

- Operated a high-pressure anechoic facility with stagnation temperatures up to 1500 K, generating supersonic jets up to a fully expanded Mach number of 2.5.
- Produce flow visualizations through recognized techniques such as Shadowgraph, Schlieren, and Particle Image Velocimetry (PIV)
- Recorded and Analyzed data obtained using a variety of transducers to obtain spectral characteristics and recognize the acoustic capabilities of various types of nozzles and forms of active & passive flow control

Research Assistant, The University of Texas at Austin **12/2016 – 12/2018**

- Initiated new process of data collection which increased efficiency from 92% to 100% through innovation of the LabVIEW software that controls the mechanical devices, instruments, and transducers, data collection units, and tanks that govern the Mach 1.8 wind tunnel
- Integrated a system of high-pressure jet streams, in conjunction with a ramp contained within the wind tunnel to introduce pressure perturbations into the flow
- Construct a PID to maintain the location of the shock train in the face of pressure disturbances regardless of frequency or magnitude

ACADEMIC & LEADERSHIP EXPERIENCES

Chief Engineer, Aircraft Design, The University of Texas at Austin **01/2018 – 05/2018**

- Guided a team of 8 engineers to meet requirements, such as wing loading, payload, mass, speed, duration, risk assessment, sizing, and power, as requested by the customer in the RFI
- Evaluated control surfaces, electrical connections & wires, sensors, and autopilot systems
- Performed risk assessment and generated risk mitigation protocols

President, The University of Texas Water Ski Team **11/2016 – 11/2017**

- Coordinated 60 members with a 10-person officer board to produce new forms of revenue, established a modern website, designed advertisements to accentuate the team brand across the nation
- Oversaw use of \$55,000 to lease a competition ski lake, procure new equipment, uphold and maintain a boat, cover traveling & accommodation costs, and restructured merchandise acquisition and distribution
- Refocused the team towards competitiveness and recruited a coach to accelerate individual growth

SKILLS

- Experienced with C, MATLAB, SOLIDWORKS, LabVIEW, HTML, CSS, and JavaScript
- Adept with high pressure systems, data acquisition, and digital signal processing
- Strong oral & written communication, teamwork, time management, and problem solving
- Fluent in Arabic and English