

# Yousef Saleh

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## EDUCATION

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**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

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### **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

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### **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

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- 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