

Saleh Khan

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EDUCATION

University of Houston

Bachelor of Science in Mechanical Engineering | Minor in Aerospace Engineering
Clubs/Organizations: Cougar Racing (FSAE) - CFO & Suspension Apprentice, CougarAI - Workshop Officer

Houston, TX
Expected 2029

RESEARCH & TECHNICAL PROJECTS

Wearable Motion-Controlled Two-Axis Gimbal

Independent Project

July 2026 – Present

- Developing a two-axis laser gimbal in **Fusion** and **Solidworks**; designing the cuff, brackets, gimbal components and electronics enclosure for **3D printing** and testing, translating arm-mounted **IMU** wrist orientation into **ESP32**-controlled pan and tilt.

SPARK-UP Semiconductor & AI Research Program (University of Houston)

Undergraduate Research Scholar

September 2026 - December 2026

- Developing an automated semiconductor inspection system under Dr. Ryou, integrating **robotic wafer transfer**, **optical imaging**, and a team-developed **CV** model for **defect detection**.
- Designed a custom **wafer-handling end effector** for a **6-axis myCobot** arm in Autodesk **Fusion**; used assembly **joints** and motion simulation to evaluate pickup clearance, **robotic-arm** movement and positioning beneath the optical inspection system.

Nourish | Smart Community Fridge

CodeRED: Orion Hackathon

October 2026

- Co-developed **Nourish**, an **open-source smart-fridge prototype** for food banks, integrating **Gemini-powered inventory analysis** and an **ElevenLabs** voice interface for donations.
- Connected **4 Arduino** sensor streams and AI inventory **confidence scores** to a **Tiger Data-backed dashboard** for live monitoring & alerts; gamified donations with a **Paper.io-inspired map**, leaderboards and **Solana** integrated rewards for top donors.

Cougar Racing (FSAE) | Shock Dyno

Suspension Apprentice

Houston, TX

June 2026 - Present

- Created an FSAE shock dynamometer using a **crank slider mechanism**, **linear rails**, a **load cell** and **linear position sensors** to collect **damper force** and **displacement** data; modeling the full assembly in **Solidworks** and **Fusion** and sourcing components.

PROFESSIONAL EXPERIENCE

Equitle

Business Development Intern

Austin, TX (Remote)

May 2026 – August 2026

- Led data collection and outreach for *Equitle Partners*, sourcing and enriching prospect lists, sending **~77,000 personalized** emails to business owners and tracking responses in order to build a buyer-seller network and generate training data for Hawk, Equitle's **AI agent**.
- Sourced and enriched **~390** prospects across M&A communities, search funds, independent sponsors and **T20** university ETA clubs using **Claude Code** w/ Clay & Apollo **MCPs**. Completely designed Times Square Billboard.

Nueces Mosque

Data Analyst & Administrative Assistant

Austin, TX

October 2025 – November 2025

- Analyzed **2,000+ Calendly** appointments using **LLMs**, compiling **100+** pages on UT student mental-health trends for year-end reporting.

LEADERSHIP & ACTIVITIES

Autodesk

Design & Make Ambassador

Houston, TX

August 2026 - Present

- Selected as an **Autodesk campus ambassador**, helping students build technical skills in **Fusion**, **Revit**, and **Flow Studio** through workshops.

Cougar Racing (FSAE)

CFO & Suspension Apprentice

Houston, TX

June 2026 - Present

- Independently built an **AI** sponsorship pipeline using **Codex**, **Claude Code**, **Apollo**, **Clay**, and **Lemlist**, sourcing **1700+** prospects, automating an 8-person workflow; sent **~949** personalized emails at **~5% reply rate**; secured **\$16K** in cash sponsorships (\$5K received; \$11K invoiced).

Travis DECA Chapter

Vice President of Roleplay Events

Richmond, TX

May 2024 – May 2026

- Led Roleplay committee of **3** in **200+** member chapter; ran workshops **2x/wk**, helping **16** to **state** and **3** to **international** competition in 2026.

SKILLS & ADDITIONAL INFORMATION

Technical Proficiencies: Autodesk Certified User: Fusion | Solidworks | 3D Printing | ESP32 | IMU | Revit | Claude Code

Other Projects: AI Computer Vision Hand-Eye Coordination Trainer | AI Secondhand Clothing Identification, Market Value, Sustainability Software (Engineering Capstone) | Functional Toy Train & Track (CAD) | Squat Rack (CAD) | Rock Climbing Grip Attachment (CAD) | Wooden Trebuchet | Open-Loop Vehicle (VEX) | Automated Parking Garage Gate (VEX)

Interests: Mechanical Systems, Equipment Design, Mechanisms, Hardware Testing, Mechatronics