

GHASSAN ALJAWI

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Education

Massachusetts Institute of Technology

Cambridge, MA USA

Bachelors of Science in Mechanical Engineering: Controls and Robotics. GPA:4.7/5.0

May 2024

- **Relevant Coursework:** Product Engineering Process (2.009) / D-Lab: Design / Materials & Mechanics I / Analysis & Design of Feedback Control Systems / Electronics / Numerical Computation / Design & Manufacturing II

Experience

Saudi Aramco Research Center

Detroit, MI

Climate and Sustainability Intern

May 2023 - Aug 2023

- Programmed a MATLAB data analysis tool for well carbon footprint based on Life Cycle Assessment (LCA) techniques.
- Presented my design and findings to upper management and research center employees.
- Tool assists sustainability team by decreasing data extraction time from an avg 15 minutes to one.

MIT CSAIL Perceptual Science Group

Cambridge, MA

Research Assistant

May 2022 - Sep 2022

- Assisted with designing a robotic hand with tactile sensing capable of grabbing objects regardless of shape.
- Designed and manufactured test rigs for characterizing aspects in the hand. Funded by Amazon and Toyota.

MIT Tasean Group

Cambridge, MA

Research Assistant

March 2021 - Aug 2021

- Manufactured razor blades using an alternative method of cold rolling to save material in the process.
- Gained familiarity with metallurgy fundamentals, mill machining, and cold rolling.

Extracurriculars

Large Event Organizer

Cambridge, MA

MIT East Campus REX

Feb 2022 - Aug 2022

- Led the building of a 3-story-high & 150-ft-long roller-coaster, fort, climbing wall, and small rides for MIT annual REX.
- Recruited students (8 build leads and 50 volunteers) to design and build.
- Co-managed finances (\$30,000), managed building materials, and communicated with administrative bodies.

Publicity Chair/ Social Chair

Cambridge, MA

MIT Arab Student Organization

Oct 2020 - Present

- Managed communication with organization partners, sponsors, and body members.
- Organized biweekly \$200 events for Arabs and allies on campus.

Teaching Assistant

Cambridge, MA

MIT Toy Lab

Feb 2021- May 2021

- Mentored 8 students taking Toy Lab Design with machining their projects.
- Collaborated with other mentors to run lab activities to support student projects.

Organizer

Remote

MIT Arab Conference

Oct 2020

- Organized a virtual conference as a team of 15 in three weeks for entrepreneurs and investors in the MENA region, achieving an average of 200 attendees a day.

Projects

Jewelry Holder - Portfolio Page

Dec 2022

- Designed to be hung on a wall, the holder is formed from lasercut metal sheets. Assembly of final product requires no machinery and can be folded by hand. Iterations and process can be seen in link.

Fitness Tracking Watch - Portfolio Page

June 2022

- The watch tracks steps taken and flights of stairs climbed. I worked on designing and manufacturing of the casing.

Honors and Awards

Honor Society Member

Sep 2022

- Pi Tau Sigma International Mechanical Engineering Honor Society, awarded for exceptional academic performance.

Fellow

Jun 2021

- Qimam and McKinsey & Company Fellowship program.

Technical Skills

Programming Languages: Python / MATLAB / Assembly (as31)

Languages: Arabic (Native) / English (Native)

Skills: Manual Machining Experience, Digital CNC Fabrication, Fusion 360, SOLIDWORKS