Steven Salah-Eddine

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Education

- **Stanford University** — Palo Alto, California
  Candidate for Master of Science degree in Aeronautical & Astronautical Engineering; — *December 2024*
  Courses: *Compressible Flow, Classical Dynamics, Soft Composites & Soft Robotics, Robotics & Autonomous Systems*
- **University of California, Berkeley** — Berkeley, California
  Bachelor of Science in Mechanical Engineering; GPA: 3.80/4.00 — *May 2022*

Skills Summary

- **Languages**: Arabic, American Sign Language (ASL)
- **Soft Skills**: Leadership, Adaptability, Public Speaking, Persuasion, Teaching
- **Hard Skills**: Product Design, Design for Manufacturability, Quality Assurance, Failure Analysis, Mechanical Design
- **Software**: Siemens NX, MATLAB, LaTeX, Microsoft Office, SolidWorks, Arduino, Ansys, Instron IO

Experience

Apple, Inc. — Cupertino, CA
iPhone Product Design Engineering Intern — *January 2023 - Present*

- Designed fixtures for experiments useful for iPhone learning's.
- Conduct failure analysis studies to make better-informed design decisions.
- Utilized Siemens NX to fabricate 3D models, translating design concepts into tangible products.
- Developed design of experiment test plans, gathering and analyzing data to inform iterative design changes.

Stanford University — Palo Alto, CA
Graduate Student Instructor - Physics 41: Mechanics — *September 2022 - January 2023*

- Host group problem sessions to assist students in learning physics.
- Responsible for grading problem sets, homework revisions, and exams.
- Independently supervised 32 students within the class, employing active learning techniques.
- Assisted the Physics Department in teaching a Mechanics course to 304 undergraduate students.

Perikinetics — San Francisco, CA
Research & Development Engineer — *March 2022 - June 2022*

- Researched and developed an implantable insulin device to treat Type 1 diabetes.
- Built prototypes to conduct benchtop testing for research and development purposes.
- Designed & drafted 2D drawings in SolidWorks following ASME Y14.5 standards.
- Manufactured prototypes utilizing SLA 3D printers and forming processes such as machining.

Projects

Bio-Inspired Monopedal Jumping Robot — December 2021
Mechatronics Project, Fusion 360, Machining

- Created a Monopedal Robot, where the goal is to have the robot jump and land effectively.
- Manufactured a preliminary prototype to demonstrate the kinematics of a jumping-leg linkage system.

Longevity — December 2020
Internet of Things Application, Arduino, AdafruitIO

- Conceive and programmed an IoT application.
- Developed a device that notifies you when your food produce is about to spoil.
- Gained proficiency in working with elements of IoT technology such as the ESP32 microcontroller, MQTT, and sensors.

Wind Turbine — December 2020
SolidWorks, 3D Printing, FEA

- Designed a wind turbine using SolidWorks, where the goal is to maximize the stiffness to weight ratio.
- 3D printed the rotor blades, support tower, and generator housing for a wind turbine.
- Determined the stiffness of tower by incorporating Finite Element Analysis Simulations.

Honors and Awards

- Dean's List - College of Engineering
- Tau Beta Pi (Engineering Honor Society)
- Pi Tau Sigma (Mechanical Engineering Honor Society)
- Awarded the best visualization design on the sixth issue of *Made at Berkeley Showcase Book*

Volunteer Experience

Professional Development Officer (PDO), Tau Beta Pi — May 2021 - May 2022
Elected as a PDO, where my position is to evaluate and critique UC Berkeley students resume's