

MARWAN HAGGAG

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EDUCATION

University of California, Berkeley – College of Engineering

Bachelor of Science in Mechanical Engineering

Berkeley, CA

Aug 2024 – May 2028

- Cumulative GPA: 3.82/4.0
- Regents' & Chancellor's Scholar, Yardi Scholar
- Relevant Coursework: Three Dimensional Modeling for Design, Introduction to Computer Programming for Scientists and Engineers, Statics and Mechanics of Materials, Manufacturing and Design Communication

Cairo American College

Dual Enrollment

Cairo, Egypt

Aug 2020 – May 2024

- Outstanding Achievement Awards in Science & IB HL Design Technology

WORK EXPERIENCE

Aevumed, Inc.

Engineering Intern

Malvern, PA

May 2025 – June 2025

- Designed & tested the *Phantom Nano*, an all suture anchor, by iterating through various designs and materials and performing mechanical tests, yielding a 50% higher pullout strength compared to competitors
- Performed passivation, deburring, abrasive blasting, and other precision workshop tasks, supporting prototype preparation, rapid design iteration, manufacturing readiness, and broader product development efforts

Brains & Motion Education

STEM Instructor

Dublin, CA

June 2025 – July 2025

- Taught robotics, coding, and animation classes for 20 students ranging from grades 3–8 in a classroom setting
- Delivered hands-on instruction and adapted lessons to varying skill levels to support engagement and learning

EXTRACURRICULARS

UC Berkeley Space Technologies & Rocketry Club

Airframe Engineer

Berkeley, CA

Sep 2024 – Current

- Collaborated with team of 6 to construct and launch a solid propulsion rocket reaching an altitude of 4000 feet
- Supporting full fabrication and assembly of liquid engine rocket, including hands on manufacturing of liquid propulsion hardware and airframe structures for vehicle integration and subsystem verification
- Designing an external piping system using Python code and SolidWorks FEA to ensure strength under impact and flight vibration loads, while maintaining manufacturability and integration with full rocket assembly

Autodesk

Student Ambassador

Berkeley, CA

Jun 2025 – Current

- Promoting Autodesk design tools at UC Berkeley by planning on-campus events, workshops, networking with students & industry leaders, & engaging in the global Design & Make community

Wind Turbine Project

Member

Berkeley, CA

Sep 2024 – Dec 2024

- Designed and validated a model wind tower in a team of 5 by modeling the full assembly in SolidWorks, performing FEA, and testing the prototype, achieving a stiffness of 3.55 N/mm and 0.5 W of power output

ExtenDesk®

Head Designer & Co-Founder

Berkeley, CA

Apr 2023 – Feb 2024

- Co-founded a startup that won 1st place at INJAZ Egypt, leading the design of a portable desk attachment
- Developed detailed CAD models and construction drawings in SolidWorks and iterated through physical prototypes, applying tolerancing, design-for-manufacturability, and hands on fabrication and testing

ADDITIONAL INFORMATION

Skills: SolidWorks, SolidWorks FEA, Fusion 360, Creo, OnShape, Python, MATLAB

Interests: Weightlifting, Kitesurfing, Cooking, Music Production, Volleyball