

MARWAN HAGGAG

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EDUCATION

University of California, Berkeley

exp. May 2028

- BA in Mechanical Engineering
- GPA: 3.82
- Regents' & Chancellor's Scholar & Yardi Scholar

Cairo American College (CAC)

May 2024

- GPA: 4.01
- Outstanding Achievement Awards in Science & IB HL Design Technology

INTERNSHIPS

Aevumed, Inc. Intern

Summer 2025

- Designed & tested the Phantom Nano, an all-suture anchor, yielding a 50% higher pullout strength compared to competitors
- Performed passivation, deburring, & other precision workshop tasks, supporting prototype preparation & product development

Brains & Motion Education, STEM Instructor

Summer 2025

- Led robotics, coding, & animation classes for 20 students in grades 3–8, delivering hands-on instruction & adapting lessons to varying skill levels

EXPERIENCE

UC Berkeley Space Technologies & Rocketry Club, Member

since Sep 2024

- Collaborated with team of 6 to construct a solid propulsion rocket reaching an altitude of 4000 feet
- Designed and optimized external piping and wiring system using hand calculations, custom Python optimization code, and SolidWorks FEA to ensure structural integrity under impact and flight vibration loads, while maintaining manufacturability and seamless integration with the LE3 rocket assembly.
- Supporting full rocket fabrication and assembly, including hands-on manufacturing of liquid-propulsion hardware and airframe structures for vehicle integration

Autodesk, Student Ambassador

June 2025-

- Selected to promote Autodesk design tools at UC Berkeley through planning community events, workshops, networking with students & industry leaders, & engaging in the global Design & Make community

Wind Turbine Project, member

December 2024

- Designed and validated a model wind tower in a 5-person team by researching turbine structures, modeling the full assembly in SolidWorks, performing FEA to guide structural decisions, and experimentally testing the prototype (3.55 N/mm stiffness, 0.5 W power output).

Extendesk®, Head Designer & Co-Founder

2023-2024

- Co-founded a startup that won 1st place at INJAZ Egypt, leading the mechanical design of a multifunctional portable desk attachment by developing CAD models, iterating physical prototypes, and applying tolerancing and manufacturability principles through hands-on fabrication and testing.

SKILLS

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- Computer-Aided Design: Solidworks, Fusion 360, Creo & OnShape
 - Programming Languages: Python & MATLAB