

# MARWAN HAGGAG

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## EDUCATION

### **University of California, Berkeley – College of Engineering**

*Bachelor of Arts 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 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

### **Extendsk®**

*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:* CAD, SolidWorks, SolidWorks FEA, Fusion 360, Creo, OnShape, Python, MATLAB

*Interests:* Weightlifting, Kitesurfing, Cooking, Music Production, Hiking