

Ahmad Hammo

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EDUCATION

University of Pennsylvania, School of Engineering & Applied Science

Ex. May 2025

- *Bachelor of Science in Engineering*: Bioengineering
- *Minors*: Engineering Entrepreneurship, Chemistry
- *Cumulative GPA*: 3.81/4.00 | *Honors*: Engineering Dean's List (May 2023)

Amman Academy (High School), IB Diploma Programme – Amman, Jordan

May 2021

- Bilingual Diploma, Score: 45/45 | *Honors*: Rank 1, Academic Excellence Scholarship, Scholar Athlete Award

PROFESSIONAL EXPERIENCE

Entrepreneurship Fellows Program, University of Pennsylvania – Philadelphia, PA

December 2023 – Present

- One of 12 University of Pennsylvania students selected for a 12-month work-study program in technology and entrepreneurship leadership.

Undergraduate Research Project Director, Perelman School of Medicine – Philadelphia, PA

March 2023 – Present

- Led and directed an independent research project investigating the effects of psychedelics such as Psilocybin on treating chronic pain and chronic pain induced depression in a mouse model, under the guidance of a Principal Investigator (PI)
- Implemented experimental protocols to assess pain-related behaviors and turn observations into quantifiable data.
- Analyzed data using MATLAB, identified significant trends and correlations, and presented findings in a poster at the Penn Undergraduate Research Program conference.

Undergraduate Research Lab Assistant, McKay Orthopedic Laboratory – Philadelphia, PA

November 2021 – Present

- Successfully performed 40+ Achilles tendon rupture and repair survival surgeries on rats in a wet lab
- Developed an overuse Achilles tendon model using neuromuscular electrical stimulation and isokinetic dynamometry to investigate 6 different aims
- Collaborated on building and programming an isokinetic dynamometer machine used in prescribing joint position through recording the reaction load generated by the ankle using Arduino and data analytic tools.

BE Modeling, Analysis and Design Laboratory, University of Pennsylvania – Philadelphia, PA

September 2023 – Present

- Developed a machine learning algorithm to decode neural network activity. Performed sensitivity analysis on the network to identify influential outcomes.
- Developed a Human Cockroach Machine Interface to characterize and control the movements of a cockroach leg and motor arm.

Tamatem – MENA's Leading Mobile Game Publisher, Products Team Intern – Amman, Jordan

May 2021 – August 2021

- Worked with cross-functional teams, including Data Analytics, Marketing, and Development, to optimize and enhance user and game experiences using SQL for effective analysis.
- Assisted in overseeing localization efforts and managing campaigns, contributing to the successful launch of 2 games.

LEADERSHIP

Translator, Belady An Island for Humanity – Cairo, Egypt

May 2023 – Present

- Translated numerous reports and documents, focusing on human rights violations against women and children in Egypt's political prisons.
- Enhanced the accessibility and reach of critical human rights information to non-Arabic speaking audiences to raise awareness and support advocacy efforts.

Refugee Camp Volunteer, Holy Land Institute for the Deaf – Amman, Jordan

June 2022 – July 2022

- Volunteered in Al-Azraq Syrian refugee camp, providing dedicated support for 30 children with learning disabilities, during a summer program to improve their readiness for school integration.
- Designed tailored educational activities, monitored progress, and fostered a nurturing environment, resulting in improved cognitive skills, communication, and social development among the children.

Academic Tutor, Weingarten Center at the University of Pennsylvania – Philadelphia, PA

January 2022 – May 2022

- Tutored 8 students in the subjects of PHYS 0150 (Mechanics & Wave Motion) and MATH 1400 (Calculus I)
- Organized weekly meetings to facilitate students' comprehension and mastery of the material.

Jordan U-17 National Basketball Team, Co-Captain – Amman, Jordan

April 2019 – August 2019

- Assisted in captaining the Jordanian U-17 basketball team with on field leadership during the 2019 WABA championship

SKILLS AND INTEREST

- **Software**: MATLAB, Python, Microsoft Office Suite, Adobe Illustrator & Photoshop, Solid Works, SQL
- **Languages**: Native in Arabic (Modern Standard)
- **Interests**: Healthcare | Middle Eastern Development | Basketball | Soccer | Squash | DJing