

# Kareem Hamidof

KareemH0801@gmail.com — (224) 310-0103 — linkedin.com/in/Kareem-Hamidof

## Education

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**University of Illinois Urbana-Champaign** Champaign, Illinois  
Bachelor of Science in Computer Engineering, Expected May 2029  
GPA: 4.0/4.0

**Conant High School** Hoffman Estates, Illinois  
Graduated: May 2025 — GPA: 4.71/4.00

## Skills

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**Programming:** C, Python, LC-3, Wolfram Mathematica  
**Tools/Hardware:** 3D Printing, Soldering, Oscilloscope, Multimeter  
**Embedded Systems:** Raspberry Pi, Arduino, Betaflight Flight Controllers  
**Software:** Xilinx Vivado (Design & Simulation), LTspice, Fusion 360 (CAD), PCB Design (introductory), Betaflight Configurator

## Experience

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**Technology Department Intern, Conant High School** Summer 2025

- Imaged PCs across the school network using Symantec Ghost.
- Configured and integrated new Macs, iPads, and Apple TVs for school use.
- Cataloged and tracked new device inventory to maintain accurate records.
- Collaborated with the IT team to meet deadlines.

**Volunteer Digital Literacy Mentor, Encore Village** 2024-2025

- Co-taught an 8-week digital literacy class for over 15 senior residents at Encore Village Retirement Home.
- Prepared and delivered presentations and interactive demos on topics such as internet safety and device usage.
- Provided one-on-one technical support to residents during a monthly technology help desk.

## Activities

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**Optics and Electronics Team Member, HackerFab @ Illinois Microtech** 2026-present

- Selected from a competitive applicant pool to develop open-source microfabrication hardware.
- Designing and implementing a motor-based focusing system for lithography.

**Electronics Team Member, Illini Solar Car** 2026-present

**Hardware Team Member, Illinois Semiconductor Student Alliance** 2025-present

- Developing optical transceiver project for Engineering Open House.
- Building and simulating circuits using LTspice.

**Club Leader, Conant HS Technology Club** 2022-2025

- Led hardware-focused projects integrating microcontrollers, sensors, and 3D printing.
- Mentored fellow students in required skills.

**Co-President, Conant HS Muslim Student Association** 2023-2025

## Projects

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**3D-Printed Mini Arcade Machine (Technology Club)** 2023-2024

- Constructed a Raspberry Pi-based mini arcade machine, from initial concept to a fully functional prototype.
- Modified and optimized CAD designs in Fusion 360 to create a custom 3D-printable enclosure.
- Installed and configured RetroPie (a Linux-based OS) to emulate classic arcade games.