

# Samuel Figueroa

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## Education

**University of Illinois Chicago** Expected: December 2026  
Bachelor of Science in Computer Engineering GPA: 3.70/4.0

- **Coursework:** Machine Learning, Data Structures & Algorithms, Digital Signal Processing, Probability & Random Processes, Image Analysis & Computer Vision, Digital VLSI design, Digital Logic Design

## Skills

**Technical & Hardware Skills:** System configuration & performance optimization, hardware diagnostics & troubleshooting, embedded systems integration, 3D printing, CAD (Fusion 360, SOLIDWORKS, AutoCAD).  
**Software & Design Tools:** C, C++, Python, Assembly, API, UI/UX design, Figma, Photoshop, WIX, WordPress.  
**Languages:** English (Fluent), Spanish (Fluent).

## Professional Experience

**Web & Technology Solutions Engineer**, UIC Chemistry Dept. – Chicago, IL Jan 2024 – Present

- Partnered with 10+ faculty clients to assess needs and deliver tailored website solutions, redesigning 60+ departmental pages using HTML, CSS, and Photoshop, driving a 27% increase in site traffic.
- Built and presented personalized research websites to faculty stakeholders, translating technical concepts into clear, compelling solutions aligned with client goals.

**Technical Solutions & Deployment Specialist**, InnovationONE – Chicago, IL March 2022 – July 2023

- Managed and presented technology solutions to 20+ staff members, communicating technical benefits in accessible terms to drive adoption and classroom integration.
- Configured and maintained 150+ Apple devices via JamfPRO, serving as the primary point of contact for troubleshooting and client support across the organization.

**STEM Mentor & Workshop Leader**, Northwestern STEAMBassadors – Evanston, IL June 2022 – June 2023

- Delivered engaging CAD, 3D printing, and programming workshops to 30+ mentors and 50+ students, simplifying complex technical concepts for diverse non-technical audiences.
- Facilitated live demonstrations and troubleshooting sessions to ensure successful hands-on learning experiences.

## Sales Experience

**Overdose Clothing**, Maracaibo, Venezuela – Managing Director

- Managed production of 200+ units, coordinating design, manufacturing and fulfillment for on-time delivery.
- Developed branded content for 100+ assets, translating product value into compelling visuals that drove customer engagement and sales.

## Projects

**Affline | Adaptive Audio Streaming System** | *Class Project* January 2026

- Engineered a full-stack audio streaming device on ESP32, integrating Bluetooth communication, real-time input handling, and a custom TFT-based graphical interface.
- Translated Figma UI frame prototypes into optimized C++ firmware, cutting display redraw operations by 87% enabling seamless multi-screen navigation.

**CTA Smart Transit Display | Real-time Information System** | *Personal Project* August 2025

- Developed a standalone embedded system that retrieves authenticated CTA API data, processes live JSON responses, and employs optimized polling and refresh cycles to ensure reliable real-time updates.

**Raspberry Pi Cloud-based Displays** | *Personal Project* February 2024

- Developed a remote content manager system using Raspberry Pi and RClone for synchronized media updates.
- Implemented scheduling scripts to enable continuous content deployment and fault-tolerant synchronization.

## Professional Association

**EDT Engineering Design Team, AiR Robotics** | UIC - Team Member August 2024 - December 2024  
**SGA Student Government Association** | Harry S. Truman - President May 2022 - May 2023  
**Apple Teacher Certification** April 2022