## LEEN KHAROUF

## COMPUTER ENGINEERING INTERACTIVE MEDIA

CONTACT	PROJECTS
+971567641051	Interactive 3D Self-Avoiding Walk Simulation (Unity, C#)  Developed a 3D maze simulation featuring explosions that alter paths, multiple non-
leenkharouf@nyu.edu	colliding agents, dynamic camera controls for optimal viewing, and a user-initiated reset functionality.
www.reallygreatsite.com	
leenkharouf.github.io/LKharouf/home/home.html	ColorScape: A Chromatic Game of Life (Unity, C#) Engineered a variant of the Game of Life where the canvas is segmented into colored zones influencing cell behavior, enhancing visual feedback and analytical depth of the simulation.
SKILLS	Visitia III. Internated Projects NVII Program Project Town
C++, Python, C,#, C, HTML/CSS	Vertically Integrated Projects: NYU Processor Design Team  Participated in a project focusing on microprocessor design, learning to write and test code using Verilog, System Verilog, and employed Git for version control.
Unity Game Engine, Adobe Photoshop, Figma, Procreate, UX Design,	Cache Simulator Implemented a dual-cache system using a write-through, write-allocate policy and LRU replacement for associative caches to manage data efficiently and monitor cache interactions.
EDUCATION	
New York University Abu Dhabi	Embedded Messenger  Currently developing a handheld messenger device using embedded systems principles, featuring message creation through hand movements and display via
Bachelor of Science in Computer Engineering GPA: 3.80   Graduation: June 2025	LEDs.
	Experience Google UX Design Professional Certificate
Brighton College Abu Dhabi	August 2023 - Present
A-Levels: Maths (A*), Chemistry (A*), Physics (A*) Graduation: June 2020	Pursuing a certificate to deepen knowledge in user-centered design, UX research, and foundational design principles. Developing a portfolio of mobile apps and responsive websites.
	Fall Detection Device
LANGUAGES	October 2021 - December 2021 Engineered a device using Arduino to detect falls and notify emergency contacts through automated alerts, equipped with a user-friendly interface for health evaluation.
English —	
Arabic —	PROFESSIONAL EXPERIENCE
Spanish •	Freelance Graphic Designer & Artist Founder & Operator
	Developed and managed a personal brand for art commissions, interacting directly with clients to tailor designs to their specifications, and created marketing materials

to promote services on various platforms.

Graphic Designer and Content Producer

icons suitable for specific layouts and applications.

Managed database administration and website graphic design, created logos and

The PE Classroom