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-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	Vertically Integrated Projects: NYU Processor Design Team Worked with a team focusing on microprocessor design, learning to write and test code using Verilog, System Verilog, and employed Git for version control.
C++, Python, C,#, C, HTML/CSS	Cache Simulator (C++)
Unity Game Engine, Adobe Photoshop, Figma, Procreate, UX Design,	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	Embedded Messenger (Arduino, C++) Currently developing a handheld messenger device using embedded systems principles, featuring message creation through hand movements and display via LEDs.
New York University Abu Dhabi	Parallax: An Interactive Illustration July 2023
Bachelor of Science in Computer Engineering GPA: 3.80 Graduation: June 2025	Created an interactive artwork using Procreate and JavaScript, achieving a dynamic 3D effect with parallax motion, showcasing a fusion of technical skills and artistic creativity.
	Google UX Design Professional Certificate
Brighton College Abu Dhabi	In progress Pursuing a certificate to deepen knowledge in user-centered design, UX research,
A-Levels: Maths (A*), Chemistry (A*), Physics (A*) Graduation: June 2020	and foundational design principles. Developing a portfolio of mobile apps and responsive websites.
Gradation, Sane 2020	Fall Detection Device
	October 2021 - December 2021 Engineered a device using Arduino to detect falls and notify emergency contacts
LANGUAGES	through automated alerts, equipped with a user-friendly interface for health evaluation.
English	PROFESSIONAL EXPERIENCE
Arabic —	I NOI LOOINAL LAFENIENCE
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.

The PE Classroom

Graphic Designer and Content Producer

icons suitable for specific layouts and applications.

Managed database administration and website graphic design, created logos and