

HAMZA MOHAMAD

[LinkedIn](#) [Portfolio](#) [Github](#)

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Arabic (native) **English (advanced)** **German (intermediate)** **French (beginner)**

SUMMARY

Game Developer with experience in Unity 2D, 3D & VR, object-oriented programming, optimization, debugging and writing clean code. Ability to learn quickly and use new programming languages, tools and applications.

EDUCATION

- **Video Game Programming Attestation of College Studies: (2021 – Present)**
 - L'institut Supérieur d'Informatique, Montreal, Canada.
- **Electrical and Electronics Engineering Bachelor degree: (2013 – 2019)**
 - Higher Technological Institute, Egypt.

TECHNICAL SKILLS

- **Languages:** C#, C++, Java, SQL, Python, HTML, CSS, JavaScript.
- **Collections:** Dictionaries, HashSet, ArrayLists, LinkedList, Queues, Stacks, Enumerable.
- **Architectures:** Top-Down, Component based, Event based, Coroutine based.
- **Design Patterns:** Factory Pattern, Object Pools, Manager, Singletons, State Machines, Strategy Pattern, Command Pattern, ECS, Async, Batching, MVC, Observer Pattern
- **Concepts:** Reflection, Extension Methods, Property Groups, Attributes, Multi-threading, Partial Class code generation, Anonymous, Params, Caching, OCP Modular architecture, Decoupling.
- **Debug:** Breakpoints, Enforce defensive coding techniques, Unit Test.
- **AI:** State, A*, GOAP, Behavior Tree, Flocking, BFS, DFS.
- **Serialization:** XML, JSON, Binary, Text.
- **Management:** Agile, Agile Scrum, TDD, XP.
- **Unity 2D, 3D, VR:** Editor scripting, Editor Variables/Menus, UI, Physics, Animation, Sound, Particle System, Render optimization, Nav Mesh, Tilemap, Materials, Lighting, Scriptable Objects.
- **External software:** OpenGL, Git, Github, Github for Windows, Bitbucket, Blender, Jira, Click up, Trello.
- **Communication & Interpersonal:** Teamwork, Active Listening, Self-Motivation, Hard Worker, Social intelligence, Leadership, Problem-solving capability, Mathematical skills, Organizational skills.

INTERESTS

- Big data
- Quantum Computing
- Photography

EXPERIENCE

- **RIYADH AL ETQAN Co, KSA: (January 2020 - January 2021)**

Description:

- Site Engineer.
- Planning & Control: Quantity Survey, Inspection Request, Electrical Submittals and Daily Reports handling.

- **HAYAH INTERNATIONAL ACADEMY, CAIRO (January 2016 – January 2018)**

Description:

- Mentored middle school students.
- Character building, strategic planning.
- Managed tours & journeys to different locations in Egypt (Managed places of accommodation, scheduled the day list).

Extracurricular Activities

- **IEEE member (2015 – 2017)**

Description:

- Electronic design, Software development, Robotics, Programming.

- **RIO Contracting Co, KSA (May 2009 – August 2009)**

Description:

- Document Control, Oracle Expedition Software Implementation.

- **ALSEDIQ YOUTH CLUB, ALSEDDIQ CHARITY, CAIRO (2010–2013)**

Projects

Portfolio

References available upon request