

# HAMZA ALAAELDEIN LABIB MOHAMAD

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Canada

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## 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

- **Programming Diploma: (February 2021 – Present)**
  - Video Game Programming, L'institut Supérieur d'Informatique (ISI), Montreal, Canada.
- **Bachelor of Engineering: (2013 – 2019)**
  - Electrical and Electronics Engineering, Higher Technological Institute, 10th of Ramadan City, 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.

## GENERAL SKILLS

- **Communication & Interpersonal:** Teamwork, Active Listening, Self-Motivation, Hard Worker, Social intelligence, Leadership, Problem-solving capability, Mathematical skills, Organizational skills.
- **Computer:** Proteus, AutoCAD, DIALUX, ETAP, Ladder.
- **Languages:** Arabic (native), English (advance intermediate), German (intermediate), French (Beginner).

## 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:
  - Mentoring middle school students.
  - Character building, strategic planning.
  - Managing tours & journeys to different locations in Egypt (Managing places of accommodation, scheduling 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 Website](#)

**References Furnished upon request**