

## EDUCATION

- New York University Abu Dhabi, UAE May 2024  
**Bachelor of Science in Computer Engineering, Minor in Arabic Language**  
GPA: 3.7/4 Acceptance rate 3% (*full scholarship*)
- Li Po Chun United World College, Hong Kong, China May 2020  
International Baccalaureate Diploma (*full merit-based scholarship*)

## WORK EXPERIENCE

- Front-End Developer at Milipol International Est, Abu Dhabi** October 2022- Present
- Developed **back-end** solution of a non-disclosable product for a small-scale audience in the Gulf, including a comprehensive database for customers, password hashing and authentication, and check-out gate. The application interacts in real-time with foreign programs using a combination of Python APIs
  - Designed and implemented a **dynamic** and comprehensive **user interface** with Bootstrap library and branded the product with a unique name, logo, and colors
  - Produced numerous blackboard 2D animations in accordance to industry standards amounting to more than 15 minutes of animation, designed script and synced audio with animation using DaVinci Resolve
- Researcher at The Applied Interactive Media Laboratory** March 2022-September 2022  
(Professor Mohammed Eid, New York University)
- Created avatars in MakeHuman with complete anatomic geometries
  - Conveyed realistic **human expressions** in generic avatars through complete facial and body rigging with the use of Rigify and Mixamo plugins, weight painting, and shape keys in [Blender](#)
  - Implemented **Motion Capture** for generic avatar with Kinect v2 camera in Unity environment
  - Implemented **Application** for experiment for Haptic Jacket and emotion regulation using Python and Flask
- Platform Specialist at Provenly, Abu Dhabi,** Jan 2022 – February 2022
- Developed **Front-end** Software Solutions for the administration of business administration services using WordPress and Squarespace

## PROJECTS

- Designed [Dynamic Website](#) for personal portfolio using HTML, CSS, and Bootstrap library
- [TV interview in Arabic for Emirattv](#) in occasion of the UN Arabic Language Day on the 18th of December 2022
- Designed and implemented functioning **MIPS Central Processing Unit** using Verilog (PC, IM, RF, ALU, DM) valid for R-type; I-type; J-type instructions in Verilog including hardware detection unit and forwarding under the supervision of instructor Prince Steven Annour
- Program in **Assembly language** (MIPS) to multiply matrices, and find  $\text{pow}(n,x)$  recursively
- Created a customizable **C++ dynamic calendar** using object-oriented programming paradigms
- Implemented [Artificial Intelligence Art Generation Gallery](#) using and modifying existing AI art generators
- [Music Video Animation](#) of mixamo-rigged male avatar combining animations in the non-linear editor in Blender
- Blog** [the Independent](#): developed front-end platform for a small journalistic project in the university

**SKILLS:** C++, Python, HTML, CSS, JavaScript, Flask, VHDL, Verilog, MIPS, Blender, Unity

**LANGUAGES:** Italian, Native Fluency; English, Business Fluency; Arabic Business Fluency, Spanish, Advanced