

MOHAMAD MOSTAFA

COMPUTER ENGINEERING UNDERGRADUATE

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Dhour El Mghayriyeh, Chouf, Lebanon

EDUCATION

Beirut Arab University (BAU)

Sep 2024 — Present

Bachelor of Engineering in Computer Engineering (Expected Graduation: 2029)

- **Academic Progress:** Successfully completed 73 credits towards engineering degree requirements.
- **Core Coursework:** Object-Oriented Programming (C++, Java), Data Structures and Algorithms, Digital Logic Design, Microprocessors (8085 Assembly), Electric Circuits.

CERTIFICATIONS

CCNA: Introduction to Networks (CCNA 1)

Issued: 2026

Cisco Networking Academy

- **Core Competencies:** Mastery of IP addressing schemas (IPv4/IPv6), Variable Length Subnet Masking (VLSM), subnetting, and foundational router/switch architectures.
- **Network Architecture:** Comprehensive understanding of OSI & TCP/IP models, media operation, and network protocols.

TECHNICAL PROJECTS

Hospital Management System

Academic Project

Lead Developer | C++ & Data Structures

- Designed and implemented a structured command-line architecture using **Queues** and advanced sequential structures to simulate dynamic patient triaging, real-time admission workflows, and appointment queues.
- Optimized software reliability by practicing strict dynamic memory management, precise pointer tracking, and data separation.
- Applied robust Object-Oriented Programming (OOP) paradigms to fully decouple the client processing engine from foundational structural nodes, reducing computational overhead.

Drive-Thru Automation System

Academic Project

Lead Developer | C++ / OOP

- Engineered an interactive software suite modeling a commercial multi-stage drive-thru pipeline, accurately tracking transaction workflows, real-time menu inventories, and concurrent cost metrics.
- Implemented programmatic data validation mechanisms to mitigate stream structural failures, handling unexpected exceptional inputs gracefully.
- Constructed a clean, intuitive terminal control pipeline monitoring orders progressively from payment execution to kitchen fulfillment.

TECHNICAL SKILLS

Programming Languages

C, C++, Python, Java, 8085 Assembly

Software Concepts & Data Structures

Networking & Systems

Subnetting, VLSM, Cisco Packet Tracer, Routing & Switching Basics, TCP/IP, OSI Model Architecture

Hardware & Digital Logic

Queues, Linked Lists, Dynamic Memory Allocation,
Object-Oriented Programming (OOP), Input Validation

LANGUAGES

Arabic:

Native Proficiency

English:

Professional Working Proficiency

PERSONAL DETAILS

Date of Birth: 23 December 2006

Gender: Male

Nationality: Lebanese

Microprocessor Architecture, Digital Circuit Design,
Embedded System Basics (Microcontrollers)

HOBBIES & INTERESTS

Automotive Design:

Following modern advancements in high-performance automotive mechanics, aerodynamics, and luxury vehicle design.