Majd Aboul Hosn | Computer and Communications Engineering Student

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Objective

Dedicated Computer Engineering student at the American University of Beirut (AUB), **on the Dean's Honor List each semester**. Passionate about programming, networking, and coding, aiming to advance in a cybersecurity and engineering career.

Education

American University of Beirut (AUB)
BE, Computer and Communications Engineering
Expected 2027 | GPA: 3.88

Collège des Sœurs du Bon Pasteur, Hammana
Lebanese Baccalaureate Certificate (General Science)
with distinction
2023

Projects

Cognify — AI for Mental Health (VIP, Ongoing): Cross-disciplinary VIP at AUB developing AI-powered tools for early detection and personalized support in cognitive and mental health disorders (ASD, ADHD, depression, anxiety). Role: front-end and back-end development with LMIC team to integrate multimodal data (speech, movement, eye-tracking, VR interactions) into explainable, privacy-preserving AI solutions.

Tic-Tac-Toe (Python, Networking): **Solo project.** Networked client/server Tic-Tac-Toe with turn synchronization and socket-based communication.

Multiplayer Racing Game (Python, Networking): Developed front-end in PyQt, contributed basic back-end in SQL, and implemented slowdown, shooting, and ammo box features.

GRAND Decoder Pipeline (Verilog): **Team of 2.** Built pipelined decoder for 7-bit codewords with error-pattern generator, XOR stage, lookup matrix, hit counting, and testbench.

Traffic Light Controller FSM (Verilog): **Team of 4.** TimingCounter + SignalGenerator modules implementing sensor-aware NS/EW phases; verified via testbench.

Cryptography Project (In Progress): Coursework project under definition.

Entrepreneurship in Engineering (In Progress): Business project evaluating profitability and feasibility of an engineering venture.

Machine Learning Project (In Progress): Coursework project not yet defined.

Certifications

Industry Program Bootcamp 4.0: *Machine Learning Track* — AWEX & WIE & MFSEA

Arduino Workshop Series — AUB Robotics Club

Lebanese Civil Defense Training

FEAA 2020 Certificate of Appreciation

Diplôme de participation — Festival de Théâtre, *Les Joutes Molière*

Technical Skills

Languages: Arabic (Fluent) | English (Fluent) | French (Fluent) | Spanish (Beginner)

Coding Languages: Python | Verilog | C++ | Java | SQL | PyQt | Risc V Assembly | PSpice

Clubs & Memberships

IEEE AUB | ACM Club | 180 Degrees Consulting Club

Volunteering Experiences

Progressive Scout Association
Member
Leadership and community service through active participation and event organization.

Progressive Youth Organization
Vice President
Organized charity events and awareness programs on human rights and civic topics.

AUB Outdoors
Security Team Member
Assisted with safety and crowd management; **honored at gala as one of the best-performing security members**.