

Hanan Atwi

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SUMMARY

Motivated and detail-oriented computer engineering student with a strong interest in robotics, programming, digital systems, and hands on experience with C++, Python, and Java. Passionate about solving real-world problems through innovation and teamwork.

EDUCATION

Al-Maaref University

Bachelor of Engineering in Computer Engineering

Expected year of graduation: 2026/2027

Beirut, Lebanon

Projects

Robotic Link Control System | MATLAB and Simulink

- Optimized a 1-DOF robotic arm's performance by developing PID and Lead control systems in MATLAB, successfully cutting settling time by 40% and resolving all steady-state error.
- Utilized Simscape Multibody to verify system stability and transient behavior, ensuring the model achieved high-precision accuracy during trajectory tracking.

AI Modeling and Computer Vision Suite | Python

- Developed a CNN-based facial expression recognition model using the FER-2013 dataset, achieving 85% classification accuracy
- Enhanced the model's ability to generalize across diverse datasets by implementing strategic image preprocessing and data augmentation workflows.

Embedded Systems Portfolio | Arduino, C++

- Built autonomous prototypes featuring real-time C++ firmware and integrated sensor fusion—combining ultrasonic and servo technologies—for responsive navigation

Web Development and Front End | HTML, CSS, JavaScript

- Developed a quiz app website. Implemented features like displaying questions, capturing user answers, and showing the final score

SKILLS

Computer Skills

Object Oriented Programming, Java, Python, C++, HTML, JavaScript, CSS, MATLAB.

Languages

Fluent in Written and Spoken English and Arabic (native).

WORKSHOPS AND CERTIFICATIONS

Certified MATLAB Workshop _Faculty of Sciences, _Al-Maaref University, July 2025 (Certificate pending)

Hands-on training in MATLAB basics, matrix operations, and data visualizing

Robotics Trainer Course _Edtech Hub for Professional Development, Completion: August 2025

Teaching robotics: Arduino, AI, mobile app, sensors, motors, block coding, final project.

Electronics and Automation Systems _AkramsLab, March 2026 (Certificate pending).

FCS – Foundations of Computer Science Course _SE Factory, April 2025.

Control Design Onramp with Simulink _MathWorks, December 2025, Certified.

Python for Data Science, AI & Development _IBM / Coursera (In Progress).

The AI Bootcamp _Al-Maaref University, January 2026 (Certificate pending)

Foundations of ML, DL, LLMs, Agentic AI, RAG with hands-on project.