Mohammadkhair Awwad

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Profile

- Computer Systems Engineering undergraduate building AI, full-stack software, and embedded systems.
- Develops practical tools across hardware and software, from microcontroller prototypes to retrieval-augmented assistants.
- IEEE Birzeit University Student Branch member (2026).
- Portfolio: awwad.si

Education

B.Sc. in Computer Systems Engineering *Sep 2022 - Dec 2026*
Birzeit University

Experience

AI Engineer Intern *Apr 2026 - Present*
Top Mena Talents

- Built RAG systems and agentic frameworks.
- Researched AI optimization to improve detection of out-of-service hospital equipment.
- Created simulations for a training platform.
- Used .NET Core in application development; redesigned websites to improve UI/UX.

IEEEXtreme 20.0 Ambassador *2026*
IEEE Birzeit University Student Branch

Projects

POS Systems

- Built a two-screen point-of-sale application with barcode label printing, inventory and sales tracking, and offline synchronization across tills.
- Stack: Electron, React, SQLite, PostgreSQL.

Ritaj RAG Assistant Chatbot

- Built a Chrome extension that answers questions about Birzeit's Ritaj portal from reviewed pages, opens relevant pages, and states when no source supports an answer.
- Stack: RAG, Qdrant, Gemma, Chrome extension. Live demo

AdaGrip - Independent Finger Control Prosthetic Hand
Graduation project, Birzeit University

- Built a prosthetic hand that reads five forearm muscle sensors and uses an ESP32-S3 to control individual fingers; developed the acquisition and model pipeline.

Achievements

AI4PURPOSE Hackathon, MEDAIGENCY *Feb 2026*

- Participated with team IEEEngineers; built Aid NAV, an AI tool for navigating health crises. Team interview

1st Place - Arduino End Game Hackathon, ka3kesh at Birzeit University

- Built an automated fruit sorter using a conveyor, IR sensors, camera, and servo gate to separate produce.

1st Place - KNX Hackathon, IEEE PES & Electra Control Systems

- Learned KNX fundamentals in a 3-hour workshop and completed a smart-building automation task under time pressure.

Skills

Programming	C, Python, Java, SQL, TypeScript, React, Next.js
AI & Data	RAG, Qdrant, Gemma, computer vision, database design
Systems & Hardware	Linux, ESP32, Arduino, Verilog HDL, VHDL, RTL design, sensors
Tools	PostgreSQL, SQLite, Electron, Quartus, PSpice, VS Code

Languages

Arabic	Native
English	Fluent (professional proficiency)
French	Elementary (A2)