

Haya Karanouh

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PROFILE

Fourth-year Computer and Communications Engineering student at AUB focusing on the software track, with experience in full-stack development, Python-based simulations, and technical documentation. Alongside engineering, I freelance in content creation, photography, video editing, and social media, and actively apply these skills through university leadership and student-life roles.

EDUCATION

American University of Beirut (AUB), Beirut, Lebanon Aug. 2023 – Jun. 2027

- Bachelor of Engineering in Computer and Communications Engineering; Software Track.
- Affiliations: IEEE, Women in Engineering (WIE), Engineering Student Society (ESS).

Hariri High School II, Beirut, Lebanon Sep. 2008 – Jun. 2023

- Lebanese Baccalaureate in General Sciences, Average 16.5/20; Co-Valedictorian, 2023.

PROFESSIONAL AND MEDIA EXPERIENCE

Dar Al-Handasah, Telecom Department Intern Jun. 2026 – Present

- Review telecom-related technical documents, reports, and infrastructure materials within a multidisciplinary engineering environment.
- Gain exposure to professional documentation, engineering workflows, and coordination across large-scale technical projects.

Work Study Program, Gallery Assistant Feb. 2025 – Present

- Support gallery operations, exhibition supervision, visitor coordination, event logistics, and workshop organization.
- Create and organize digital content for social media, gallery activities, workshops, and event communication.

Freelance Media & Content Editing Apr. 2023 – Present

- Create visual content for online businesses, student initiatives, and social media platforms.
- Produce short-form videos, photo-based content, and promotional visuals using editing tools and camera-based content creation.

TECHNICAL PROJECTS

American University of Beirut, Undergraduate Research Assistant Sep. 2025 – Present

- Implement Python simulations on Google Colab to study Age of Information (AoI) and Age of Semantic Information (AoSI) scheduling in wireless communications.
- Extend scheduling logic with urgency-aware behavior and evaluate system performance using simulation results and comparative analysis.

VolleyMasters – Volleyball Club Management Platform Spring 2026

- Developed a full-stack Django web platform with role-based dashboards for admins, coaches, players, and parents.
- Built backend features for user approval, roster management, attendance tracking, payments, announcements, match statistics, and court lineup visualization.
- Used Python, HTML/CSS, JavaScript, SQLite, GitHub, Jira, and Dockerized deployment.

Building Management Systems Study – Clemenceau Medical Center Fall 2025

- Analyzed centralized BMS architecture, building services systems, and energy-management workflows.
- Proposed energy-efficiency and sustainability recommendations based on observed system performance and operational needs.

Fire & Smoke Detection System using Computer Vision Fall 2025

- Developed a YOLOv8-based computer vision pipeline for early fire and smoke detection.
- Implemented image-processing and inference steps to support automated visual detection from input media.

LEADERSHIP AND ACTIVITIES

Engineering Student Society, Vice President Aug. 2025 – Present

- Promoted from Social Media Manager to Vice President.
- Oversee communication, outreach, event promotion, student engagement, and publicity across society initiatives.

AUB Yearbook 2025, Tech & Innovation Team Spring 2026 – Present

- Contribute creative and digital ideas to combine traditional print with interactive, student-centered experiences.

SKILLS AND INTERESTS

Software & Technical: Python, C++, Django, HTML/CSS, JavaScript, SQLite, GitHub, Jira, Docker, Google Colab.

Media & Design: Content creation, photography, video editing, social media management, Canva, CapCut, Adobe Lightroom, Figma.

Languages: Arabic, English, French.