Ashraf Dham

✉ ashraf.dham08@gmail.com | 📞 +961 81 136485 | 📍 Hamra - Lebanon

First year mechanical engineer with strong academic achievements, technical skills, and a deep commitment to personal and community growth. Experienced in programming, robotics, 3D modeling, and STEAM education leadership, with a passion for solving real-world problems through innovation. Eager to pursue engineering, contribute to meaningful projects, and continue developing the skills needed to create a positive impact locally and globally.

Education:

BE in Mechanical Engineering: first year | Lebanese American University   *8.2025 - Present*

Grade 12: General Science | Rashaya High School   Grade: 17.86/20   *2022-2025*

Scholarships:

Web Developer | CodeBrave Scholar   *25.9.2023 – 15.2.2025*
– Designed and developed responsive, user-friendly websites using HTML, CSS, and JavaScript, ensuring optimal performance and engaging user experiences.
– Utilized frameworks like Bootstrap and React to create dynamic and interactive web interfaces, while gaining foundational knowledge in back-end development.
– Conducted comprehensive testing and debugging to guarantee seamless functionality and compatibility across various browsers and devices.
– Demonstrated strong problem-solving abilities, addressing technical challenges creatively and effectively in web development projects.

Internships:

Online presence website - Stark group   *6.2024 - 8.2024*
– Led the design and development of the company website, ensuring it was visually appealing, user-friendly, and aligned with the company's brand identity.
– Collaborated with the team to create a responsive and functional site, integrating key features to improve user experience and enhance online presence

E-commerce Website - Cholingo   *8.2024 - 11.2024*
– Designed and developed a fully functional e-commerce website, integrating payment gateways, product pages, and a seamless checkout process to enhance user experience.

Experiences:

Freelancer - Web Developer   *20.12.2024 – present*
– Improved Codebraves' official website through targeted code modifications and the successful integration of new pages and features
– Built a dynamic and user-friendly website for a local pizza restaurant, focusing on an intuitive design and an interactive menu to enhance customer engagement

Coordinator of the Steam Lab | Rachaya high school   *30.6.2023 – 13.6.2025*
– Led the creation, design, and printing of 3D models using CAD software, enhancing students' understanding of design concepts and 3D printing technology.
– Programmed and developed robots with Arduino technology, facilitating hands-on learning and fostering students' skills in coding, robotics, and problem-solving.

Introduction to computational programming using python (EECE230X) | Maroun Semaan Faculty of Engineering and Architecture-AUB   *1.7.2024 – 15.2.2025*

– Actively participating in learning foundational computational programming concepts using Python, including data structures, algorithms, and problem-solving techniques.
– Applying Python to solve real-world engineering problems and performing hands-on coding exercises to deepen understanding of programming principles.

Cisco IT essentials | Cisco-Dot Lebanon   *25.10.2024 – 12.1.2025*

– Gaining comprehensive knowledge in IT fundamentals, including hardware, software, and network troubleshooting.
– Learning to install, configure, and maintain computer systems and networks, with a focus on real-world applications and industry standards.

Honors and Awards:

Zayed Sustainability prize Finalist 2026   *5.10.2025-present*

– Selected as a finalist for the prestigious Zayed Sustainability Prize (ZSP) for **Liquid Spark**, an innovative solution designed to combat water pollution
– Developed a comprehensive implementation workplan outlining how the device can be deployed across Lebanon to achieve measurable and sustainable environmental impact

First place winner in the high school engineering scholarship competition   *5.4.2025*

– Awarded a 30% scholarship in recognition of outstanding engineering excellence and achievement.
– Demonstrated strong problem-solving skills and innovative thinking through participation in various challenging engineering scenarios.

Burjeel Holding-Oxford Said Business School Climate Change Challenge Finalist
8.7.2024-19.11.2024

– Developed an innovative solution to address water pollution by designing a robot capable of cleaning water bodies from debris, integrated with a mobile application for real-time monitoring and control.
– Presented the project to an audience of over 100 people, including judges from Oxford, Burjeel, and other prestigious organizations, at the *Energy Room, Green Zone, COP29.*
– Received positive feedback for the project's potential to contribute to sustainable environmental practices and combat global water pollution.

Climate Champion Program | Teach for Lebanon-Access   *8.8.2024-9.11.2024*

– Developed an innovative robotic solution to combat the Varroa mite, a major threat to bee populations.
– Successfully won the competition by presenting a comprehensive business model for the project, demonstrating entrepreneurial and strategic planning skills.

Languages:
French (bilingual proficiency) | English (Professional Proficiency) | Arabic (Maternal language) | German (Elementary proficiency)

Skills:
Technical skills: SolidWorks, Fusion 360, Tinker cad, HTML, CSS, JavaScript, React, Python, C++, Bootstrap, WordPress, Figma, Git, GitHub, Postman, LabView, Microsoft Word, Excel, PowerPoint.