

Abdullah Alafari

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Education

Bachelor of Science in Computer Science College of Computer and Information Science, Riyadh, Saudi Arabia Prince Sultan University, GPA: 3.83/4.00	Expected Graduation: 2028
CCNA Training Program Tuwaiq Academy, Riyadh, Saudi Arabia	January 2025 - February 2025

Skills and Interests

Interests	Product Development, System Design, Embedded Systems, IoT, Networking, Automation, Robotics, Modeling and Simulation
Technical Skills	Arduino, ESP32, Raspberry Pi, Home Automation (Zigbee, Home Assistant), Networking Fundamentals (Routing, Switching, VLANs), Linux, Docker

Experiences

Mechatronics Bootcamp Participant <i>Tuwaiq Academy</i>	Jan 2026 – Feb 2026
<ul style="list-style-type: none">Completed an intensive, hands-on training program focused on mechatronics fundamentalsGained practical experience in electronics, embedded programming, and system integrationWorked on application-based exercises and small projects following a build-test-improve approachLearned how hardware, software, and mechanical components integrate to form functional systems	
Intern – Mawhiba Alumni <i>King Abdulaziz & His Companions Foundation for Giftedness and Creativity (Mawhiba)</i>	Jun 2025 – Jul 2025
<ul style="list-style-type: none">Audited the Mawhiba Alumni landing page and admin panel, identifying issues and documenting bugsPrepared structured reports and communicated findings to the development teamGenerated and analyzed alumni-related insights to support internal evaluationContributed to proposals and planning for the Mawhiba Alumni development project	
President – Game Development Club <i>Prince Sultan University</i>	2025 – Present
<ul style="list-style-type: none">Student-led university club focused on learning, collaboration, and professional skill development in game developmentLed and coordinated technical and creative activities including programming, game design, and project planning	

Projects

Self-Hosted Smart Home and Local Server Infrastructure <i>Independent Systems Engineering Project</i>	2023 – Present
<ul style="list-style-type: none">Designed and deployed a local-first smart home infrastructure using Zigbee, Home Assistant, Node-RED, and n8n across a multi-floor residential villa (500 m²)Migrated a large number of smart devices from cloud-dependent platforms to fully local controlIntegrated a Synology NAS with Dockerized services including media servers (Plex, Jellyfin), backups (SFTP), and automation workflows (n8n)Implemented network segmentation (VLANs), local routing, and service isolation to enhance performance, scalability, and maintainability	