AHMAD ABUBAKER

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EDUCATION

Stanford University   September 2023 - September 2025
M.S. Design

Jordan University of Science and Technology   January 2015 - December 2019
B.S.E Electrical and Communications Engineering

PROFESSIONAL EXPERIENCE

Stanford Product Realization Lab (PRL)

Course Assistant (CA)   September 2023 - Present

- Coached students in successive prototyping and rigorous experimentation with processes and materials.
- Trained students on: CNC, welding, milling, turning, casting, woodworking, 3D printing, laser cutting, and more fabrication workflows.
- Reviewed student's CAD and CAM and provided DFM feedback.
- Helped researchers design and manufacture experiment hardware builds.

Canaan IoT - Coffee Tech Startup

Co-founder and Head of Design   January 2021 - September 2023

- Led PCB and encloser design for IoT sensor node prototypes.
- Setup proof-of-concepts experiments in more than 10 coffee shops and roasteries
- Synthesized case studies for potential customers and investors.
- Interviewed coffee shop baristas' and centered their needs and workflows in our design approach.

The International Rescue Committee (IRC)

Design Consultant   June 2021 - June 2023

- Designed, prototyped, and scaled an Early Childhood Development intervention reaching 35,000 caregivers and 50,000 children and is projected to reach 150,000 new children each year.
- Developed and helped deploy Playful Learning Areas including for healthcare clinics' waiting rooms in more than 140 locations in Jordan, Syria, Iraq, and Lebanon.
- Served as a liaison between stakeholders: parents, healthcare workers, government officials, and designers.

Naqsh Science - STEM Education Startup

Founding Director   July 2017 - January 2021

- Recruited and trained 35+ STEM majors to create Arabic-language science content and live shows.
- Led our outreach, fundraising, grant writing, and communications effort.

SKILLS

Fabrication: CNC Machining, Injection Molding, Casting, Welding and Sheetmetal forming

Design and Simulation: CAD, CAM, DFM, FEA, and Moldflow simulation

Design software: Fusion 360, Illustrator, Photoshop, Premier, and Figma

UX & Design Research: User-centered design, Usability testing, Stakeholder interviewing