

Saad A. Alzahrani

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Electronics & IoT engineer operating lab environments and delivering startup MVPs. Blend of hands-on PCB/firmware, Jetson-based CV/LLMs, and process automation (n8n/Docker). Comfortable coordinating vendors and mentoring teams.

EDUCATION

King Abdulaziz University

Electronics and Communication Engineering

Jeddah

August 2024

- **Concentrations:** Embedded Systems, Electronics Circuit Design, IoT, Prototyping, AI, Automation.
- **Related Coursework:** Electronics Design, Amplifiers & Filters, Microcontrollers and C Programming, Control Systems, Communication Systems, Electromagnetism, Antenna Design and Applications.

EXPERIENCE

Monshaat, Innovation Centre (Full Time)

Innovation Technology Analyst

Riyadh

July 2025-Current

- Lead and manage the Innovation Lab, overseeing daily operations, resource allocation, and equipment maintenance.
- Leading design, prototyping, and testing of IoT and electronics products using tools such as Proteus, KiCAD, and LTSpice.
- Coordinate service providers and support PMs on scope, schedules, and deliverables; track risks and issues.
- Mentor participants at hackathons, guiding them through ideation, prototyping, and pitching processes.
- Prepare and present detailed technical and progress reports for management and stakeholders.
- Provide consultations to startups on IoT and electronics systems, with a stronger focus on project delivery and scaling solutions to MVP stage.
- Automate workflows with n8n (Docker) to reduce manual handoffs and reporting time by 30%.
- Develop on-device AI (CV + LLMs) on NVIDIA Jetson; optimize with TensorRT/OpenCV for in house model training.

Monshaat, Innovation Centre (Contractor)

Electronics Engineer & IoT Specialist

Riyadh

November 2024- June 2025

- Give consultation to startups in developing their prototype in IoT and Electronics systems.
- Analyzing problems and implementing innovative solutions in the prototyping process using microcontrollers and microprocessors and analog electronics
- Develop prototypes to reach MVP's (Minimum Viable Products) by optimizing the solution and using engineering background.
- Using Industry standard CAD software like KiCAD, MATLAB, LTSpice.
- Working as part of a team involving 3D design, Software Engineering and Electronics to implement solutions on prototypes.

National Water Company NWC

Electronics Engineer Trainee

Al-Baha

July 2024 – August 2024

- Utilizing Electronics and Control Systems knowledge in implementing PLC Systems in water pumps.
- Working with the engineering team in different fields and communicating project development.

PROJECTS

Smart Edema Monitoring System (Senior Project)

Team Lead

September 2023 – May 2024

- Researching and designing the electronics circuits and the necessary sensors to be used for the project.
- Working on Electronics circuit design and reducing noise using electronic filters and implementing the IoT solution.
- Time and resource management for the team and arranging meetings.
- Achieving an accuracy of 91% in Peripheral Edema detection.

Smart Water Meter

Team Lead

2023

- Designing and programming an IoT water meter based on the PIC18 microcontroller using Assembly and C Programming languages.

Automatic Medicine Dispenser

Team Member

2019

- Programming the Arduino microcontroller to work with stepper motors to dispense the medicine.

Emitting Sound Signal Using LASER Technology

Team Lead

2018

- Modulating and demodulating the sound signal on the LASER light as the carrier of the signal.
- Managing team time and resources for the project development.

ACTIVITIES AND LEADERSHIP

IEEE KAU Club

Head of Media Committee

September 2019 – March 2020

- Led the creation and management of promotional strategies, including social media content, event branding, and digital campaigns, to enhance the IEEE Club's visibility and engagement.
- Coordinated cross-committee efforts to promote technical workshops, competitions, and initiatives, ensuring cohesive communication and active member participation.

Engineering Entrepreneurship Club

Member

September 2018 – March 2020

- Actively contributed to organizing events and workshops focused on fostering innovation, entrepreneurship, and technical skills among engineering students.
- Collaborated with team members to support startup initiatives, mentor aspiring entrepreneurs, and promote a culture of creativity and problem-solving within the club.

SKILLS

Technical Skills: Electronics Circuit Design, PLC System, MATLAB, Control Systems, IoT, Embedded Systems.

Soft Skills: Leadership, Teamwork, Work Breakdown Structure (WBS), Communication Skills, Academic Writing.

Tools: MATLAB, KiCAD, LTSpice, MPLAB, Arduino IDE, Microsoft Office Suite, 3D Printers.