

ADEEB AL DKHEEL

Digital Transformation Leader | R&D Management | IoT, Payments & Automation

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PROFESSIONAL SUMMARY

Digital transformation leader with 8+ years turning manual and field-dependent operations into connected and data-driven systems. Currently manages R&D at ABANA Enterprises, leading a team of four engineers across IoT platform and regulatory compliance. Delivered a multi-tenant IoT platform monitoring 2,000 edge devices that cut field visits by 70% in ATM and refrigeration monitoring. Certified AI Transformation Leader (CAITL™) with formal leadership training from FranklinCovey. Native Arabic, full professional English.

CORE COMPETENCIES

Digital Transformation Strategy • AI Strategy, Governance & Adoption • Technology Vision & Roadmapping • R&D Leadership • Operational Automation • IoT Platform Architecture • Product Ownership & Roadmapping • Agile / Scrum Delivery • Digital Payments (mada, Visa, Mastercard, MPGS) • Regulatory Compliance (ZATCA, Saudi Payments) • Vendor Evaluation & Selection • Change Management • Coaching & Talent Development • Cross-Functional Team Leadership

TECHNICAL PROFICIENCIES

Languages & Frameworks: Python, Java, C/C++, SQL, Android

AI & Data: TensorFlow, PyTorch, NumPy, CUDA, Deep Neural Networks, NLP & Sentiment Analysis, Anomaly Detection, Handwriting Recognition, Large Language Models.

Platform & Infrastructure: Google Cloud Platform, MQTT, Multi-Tenant SaaS, Java Microservices, REST APIs, Linux Administration, Microcontrollers & Edge Devices

Domain Systems: Payment Systems, ATM Monitoring, Logistics & Tracking Systems, ERP Implementation.

PROFESSIONAL EXPERIENCE

ABANA Enterprises Group Co.

Riyadh, Saudi Arabia

Jul 2018 – Present | 8 yrs 2 mos

R&D Assistant Manager

Jan 2024 – Present

- Lead the R&D function and a team of 4 engineers: set technology vision, define product roadmaps, and carry initiatives from concept through commercial release.
- Conceived and launched ABANA IoT, a multi-tenant SaaS platform ingesting telemetry from 2,000 edge devices over MQTT, with REST and mobile-app interfaces; MVP delivered in six months.
- Cut field service visits by 70% across ATM and refrigeration monitoring by replacing scheduled on-site inspections with real-time remote diagnostics and alerting — materially reducing technician travel cost and fault response time.
- Architected the platform cloud-native to scale horizontally as customer device fleets grow, establishing the foundation for edge expansion into new asset classes.
- Owned vendor strategy — evaluated and selected the field hardware line-up (sensors and gateways) to guarantee secure, seamless device onboarding at scale.
- Directed delivery of a ZATCA-compliant e-invoicing system, transitioning invoicing operations to the Saudi tax authority's mandated digital standard.
- Remained hands-on: built targeted Java microservices and rule flows, and led end-to-end QA on every release.

Senior Software Engineer

Jan 2022 – Jan 2024

- Led software design and infrastructure decisions across R&D products, setting architectural standards adopted by the wider engineering team.
- Delivered a parcel management platform now operating 500+ parcel units — automating postman assignment, locker reservation, and OTP-verified customer pickup, replacing manual last-mile handoff.
- Mentored engineers on architecture, code quality, and delivery practices.

Software EngineerJul 2018 – Jan 2022

- Developed mada-scheme EFTPOS payment terminals accepting Visa, Mastercard, and mada transactions in full compliance with Saudi Payments regulations — supporting the national shift from cash to digital payment.
- Built mPOS, an Android application converting standard smartphones into card-accepting payment devices, lowering the hardware barrier for small merchants.
- Integrated e-commerce merchants with the MPGS payment gateway, accelerating onboarding for online payment acceptance.

Kawkab Al Rayada Trading & Real Estate Co.Saudi Arabia

Information Technology Support Specialist

2012 – 2018

SELECTED PROJECTS

ABANA IoT (2024 – Present) Multi-tenant IoT SaaS — 2,000 edge devices, MQTT telemetry, real-time dashboards; 70% reduction in field visits.

E-Invoicing – ZATCA (2024 – Present) Electronic invoicing system built to Saudi ZATCA regulatory specification.

Parcel Management Platform (2023 – 2026) 500+ parcel units — shipment routing, locker reservation, OTP pickup validation. parcelat.com

Payment Gateway Integration (2020 – 2021) MPGS integration enabling e-commerce merchants to accept online payments.

mPOS (2020) Android application turning smartphones into contactless payment acceptance devices.

EFTPOS mada (2018 – 2019) Certified payment terminal supporting mada, Visa, and Mastercard under Saudi Payments regulations.

Arabic Character Recognition (2017 – 2018) Deep learning models for Arabic handwriting and vehicle license plates — 97% accuracy.

EDUCATION

Bachelor of Science, Computational Science

2011 – 2017

Qassim University, Saudi Arabia

- Graduation project: Deep Learning for Arabic Handwritten Recognition — 97% accuracy.

LICENSES & CERTIFICATIONS

Certified AI Transformation Leader (CAITL™) — United States Artificial Intelligence Institute, 2026 (valid to 2029)

Leadership Development Program — FranklinCovey Middle East, 2025

Strategic Leadership · Inclusive Leadership · Navigating Change · Building Business Acumen · Productivity — FranklinCovey, 2025

The 7 Habits of Highly Effective People® (Signature Edition 5.0) · The 4 Essential Roles of Leadership · Project Management: Plan — FranklinCovey Middle East, 2025

Generative AI Overview for Project Managers — Project Management Institute, 2024

Introduction to IoT — Cisco, 2024

Neural Networks and Deep Learning — Coursera (deeplearning.ai), 2020

Machine Learning and Deep Learning — Big Innovation Centre, 2020

Artificial Intelligence for Engineers · Introduction to Artificial Intelligence — Royal Scientific Society, 2020

LANGUAGES

Arabic — Native · English — Full professional proficiency