

# Mustafa Aboelhamd

## SENIOR AUTOMATION ENGINEER · RPA & AI SOLUTION ARCHITECT

Riyadh, KSA | +966 50 985 2363 | +20 100 131 4267 | mustafa.a.aboelhamd@gmail.com | [LinkedIn](#)

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### PROFESSIONAL SUMMARY

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Senior Automation Engineer and certified UiPath Solution Architect with 4+ years designing and delivering end-to-end RPA and AI-driven automation for leading government and enterprise organizations across Saudi Arabia and Egypt. Owns solutions from analysis (PDD / SDD) through development and production deployment, and now leads agentic, GenAI/LLM and specialized-AI initiatives — combining intelligent document processing with large language models to extend automation into judgment-based, unstructured work. Has automated 50+ business processes, eliminating 37,500+ manual hours per year across healthcare, finance, banking and the public sector, while mentoring a squad of 30 developers.

### CORE SKILLS & TECHNOLOGIES

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**RPA & Automation:** UiPath (Studio · Apps · Action Center · Test Suite · Insights · Orchestrator) · Automation Anywhere · Power Platform (Power Apps / Power BI) Process & Task Mining

**AI, GenAI & Chatbots:** OpenAI / GPT · Anthropic Claude · LLM Fine-Tuning · Prompt Engineering · DRUID Conversational AI · Agentic Automation · Specialized AI

**Document Intelligence & ML:** Document Understanding · ABBYY OCR · OCR / IDP · NLP · PyTorch · Machine Learning · AWS SageMaker

**Programming:** Python · C# · VB.Net · .NET Framework · Java · C++ · JavaScript · PowerShell · SQL · OOP · Data Structures · Algorithms

**Data, Integration & Tools:** SQL Server · REST APIs · JSON / XML · Webhooks · VBA · Git · AWS · Jira · HTML · CSS

**Practices:** Solution Architecture · Agile / Scrum · PDD & SDD · Technical Documentation · Team Leadership & Mentoring

### PROFESSIONAL EXPERIENCE

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#### Senior Automation Engineer

Jan 2025 – Present

##### BARQ Systems — Riyadh, KSA

- Lead and mentor a squad of 30 developers, owning solution design, code quality and technical guidance across concurrent enterprise automation programs.
- Architect and deliver end-to-end RPA and conversational-AI solutions from scratch for prominent Saudi government and enterprise clients.
- Drive adoption of UiPath agentic and specialized-AI capabilities, extending automation into unstructured, judgment-based processes.

#### Automation Engineer

Oct 2023 – Dec 2024

##### BARQ Systems — Riyadh, KSA

- Delivered automation solutions and enterprise chatbots end-to-end — analysis, PDD, SDD, development and production deployment.
- Built and integrated AI conversational chatbots, connecting UiPath Orchestrator with live-agent customer-care systems for major organizations.

#### RPA Developer

Apr 2022 – Oct 2023

##### Aman for E-Payments — Giza, Egypt

- Automated internal FinTech, HR and Finance processes, including a pipeline generating ~100 new merchant accounts daily.
- Re-engineered high-volume process flows to cut manual effort, saving 8 man-days per cycle on account creation.

## RPA Developer

Sep 2021 – Apr 2022

### InovaSys — Cairo, Egypt

- Developed automations for the banking sector and ERP systems, improving accuracy and throughput of repetitive back-office operations.

## Data Science Engineer Intern

Aug 2020 – Nov 2020

### Egyptian Space Agency (EgSA)

- Built a machine-learning anomaly-detection model for satellite telemetry data.
- Developed an image-processing pipeline on NASA cloud imagery to classify cloud formations supporting climate research.

## HIGH-IMPACT PROJECTS

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### Wasfaty Medical Inquiries — NUPCO · Healthcare

High-complexity automation that connects patients to the nearest pharmacy stocking hard-to-find medications, combining data processing, UI, email, VBA, database automation and GPS-based allocation.

### SFDA Tender Validation — NUPCO · Public Sector

Validates supplier tenders against the SFDA approved-medication list, prompts providers to resolve missing requirements, and flags compliant tenders as "under consideration."

### Underwriting — Emkan · FinTech

Automated credit decisioning that reviews bank statements, financial commitments, age, employment status and credit history to determine credit limits and approve or decline installment applications.

### AI Conversational Chatbot — Modon · Enterprise

Designed, built and tested a chatbot from scratch on the DRUID AI platform, integrated with UiPath Orchestrator and customer-care live-agent systems.

### POS Account Creation — Aman for E-Payments · FinTech

Fully automated process generating ~100 merchant accounts per day; delivered within 3 months and saving 8 man-days per run through extensive process-flow enhancements.

## CERTIFICATIONS & LEADERSHIP

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- UiPath Certified Automation Solution Architect
- UiPath Certified Specialized AI Professional
- UiPath Certified Agentic Automation Associate
- UiPath Certified Advanced RPA Developer
- Automation Anywhere Advanced Developer
- Udacity Machine Learning Engineering Nanodegree
- Certified Scrum Product Owner (CSPO®)
- DRUID Conversational AI Author
- Academic RPA Lecturer & Trainer — BARQ Academy

## EDUCATION

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### B.Sc. in Computer Science & Pure Mathematics

2016 – 2021

Faculty of Science, Al-Azhar University · Grade: Very Good