



Al-Jazari-X



AI-Powered Robotic Assistant for Everyday Life

E-mail

aleee_shaikh@yahoo.com



Contact #

+92 343 344 3057



Website

<https://aleee-shaikh.github.io/Al-Jazari/>

My Startup Story

From an early age, I was deeply curious and passionate about **robots and machines**. Every time I saw a robot, I imagined building one of my own — not just as a machine, but as something truly **useful for humans**.

During my research and development journey, I discovered the **father of robotics**, the legendary inventor **Ismail Al-Jazari**. His early mechanical inventions and programmable machines inspired me deeply. In his honor, I named the project **AI Jazari-X**, paying tribute to the pioneer of robotics and mechanical engineering.

With this vision, I chose to begin where assistance is needed the most: **healthcare and household services**. Over time, AI Jazari-X evolved. **Manual control** expanded into **autonomous navigation** with **dynamic layouts, voice-command operation, real-time surveillance through live camera streaming, computer vision**, and an **AI-powered conversational agent** that allows users and patients to interact naturally.

Today, **AI Jazari-X** stands as a growing platform for **intelligent service robotics**, designed to assist in hospitals and homes by reducing human workload, improving patient comfort, and bringing adaptive AI into real-world environments — a step toward a future where robots assist, learn, and adapt alongside humans.

The Problem

Family Care Gap – 24/7

- Continuous support, companionship, and assistance are often missing when family cannot be present

Limited Doctors, Nurses, and Caregivers Availability – 24/7

- Doctors, Nurses and caregivers cannot always stay connected with patient at all times

Poor Patient Experience

- Isolation, lacking of immediate access to interaction, entertainment that may help patient to recover fast

Visitors Guidance & Logistics Gaps

- Repetitive, non-medical tasks such as navigation guidance to visitors, surveillance, item delivery, and basic assistance reduce staff efficiency and increase fatigue.

Infrastructure & Convenience Limitations

- Patients often lack easy access to charging points, dedicated connectivity (Wi-Fi).

Technology Accessibility Gap

- Existing robotic solutions are often too expensive, environment-specific, or inflexible, making them impractical for many hospitals, especially in developing regions.

Our Solution

Continuous Patient Support

- Provides **companionship, basic assistance, monitoring/surveillance**, and responds to **voice commands** through AI-driven autonomy & voice interaction

Stay Connected

- Enables instant calls with doctors and family, bridging gaps in care.

Enhanced Interaction & Entertainment

- Offers hands-free communication, and personalized interaction, improving comfort and engagement.

Automated Guidance & Delivery

- Guides hospital visitors efficiently, transports items , handles routine deliveries, **reducing staff workload**, and **boosting overall operational efficiency**.

Integrated Amenities

- Provides charging points, dedicated Wi-Fi access, and bedside digital assistance to enhance patient convenience.

Affordable & Flexible Solution

- Built as a cost-effective, adaptable robot, suitable for various hospital layouts and household use, bridging the accessibility gap in service robotics.

Competitive Edge/USP

Patient Care & Companionship – 24/7

- Continuous assistance and companionship, ensuring patients are never unattended.

Multi-Functional All-in-One Platform

- Combines patient care, visitor assistance, surveillance, item delivery, interactive patient experiences, and basic health monitoring in a single intelligent platform.

Stay Connected – 24/7

- Doctors and family stay in touch with patients via calls and video, ensuring seamless care and engagement.

Enhanced Interaction & Entertainment

- Provides engaging content, interactive activities, and personalized experiences to boost patient comfort and well-being.

Integrated Amenities

- Built-in charging points and Wi-Fi to maximize patient convenience, comfort, and engagement.

Affordable & Scalable

- Cost-effective and adaptable for both hospitals and homes, bridging accessibility gaps without compromising quality.

Competitors Analysis

Feature	AI Jazari-X	Moxi (Diligent Robotics)	HOSPI (Panasonic)	TUG (Aethon)
24/7 Patient Support	✓ AI-driven patient care, companionship, voice-responsive autonomy	✗ No patient care; delivery/logistics only	✗ No patient care; delivery/logistics only	✗ No patient care; delivery/logistics only
24/7 Stay Connected (Doctor & Family)	Stay connected with doctors and family members	✗ No family or doctor connectivity	✗ No family or doctor connectivity	✗ No family or doctor connectivity
Guidance & Delivery	✓ visitor guidance + item delivery	✓ Delivers items autonomously; no visitor guidance	✓ Delivers items autonomously; no visitor guidance	✓ Delivers items autonomously; no visitor guidance
Interaction & Entertainment	✓ interactive patient engagement that actively support better health outcomes	✗ None	✗ None	✗ None
Integrated Amenities	✓ Built-in charging, Wi-Fi	✗ None	✗ None	✗ None
Affordable & Flexible	✓ Scalable, suitable for hospitals & homes	⚠ Hospital-focused, higher cost	⚠ Hospital-focused, higher cost	⚠ Hospital-focused, higher cost

Market Opportunity

Total Addressable Market (TAM)

Global Healthcare & Service Robotics Market

hospitals, elderly care, rehabilitation centers, assisted living, home-care robots, and companion robots

Estimated TAM: \$25B – \$30B annually

Serviceable Available Market (SAM)

Targeted Market for Al Jazari-X

Hospitals & clinics, Elderly care & assisted living facilities, Home-care & remote patient support

Estimated SAM:\$5B – \$7B annually

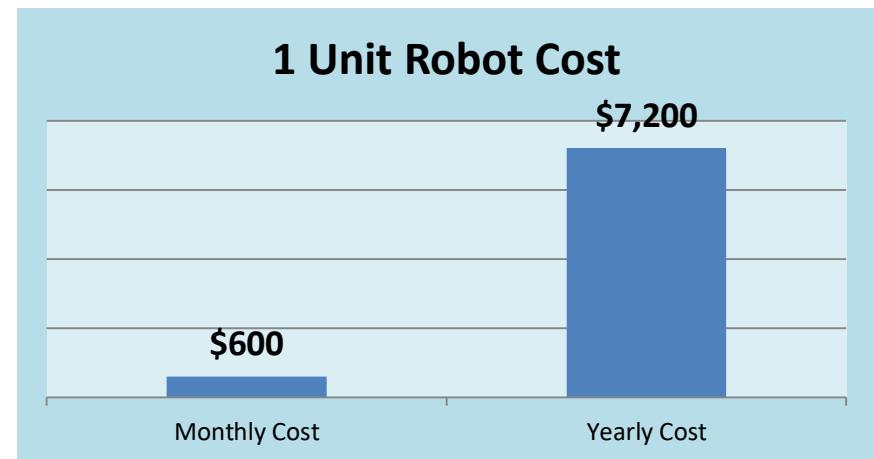
Serviceable Obtainable Market (SOM)

Realistic market capture (first 3–5 years)

Conservative assumption: Capture 0.5% – 1% of SAM

SOM value:\$25M–\$70M annually

Unit(s)	Monthly	Yearly
1	\$600	\$7200
5000	\$3,000,000	\$36,000,000
10000	\$6,000,000	\$72,000,000



Business Model

Hardware Sales (Core Revenue)

- One-time sale of Al Jazari-X Healthcare Robot

Pricing per unit: \$300

5,000 robots → 1.5M annual hardware sale revenue

Recurring Software & AI Subscription

- AI assistant, remote monitoring, updates, analytics, and communication

Pricing: \$200 / robot / month

5,000 robots → 12M annual recurring revenue

Maintenance & Support

- Maintenance, preventive care, remote/on-site support, warranty & parts

Pricing: \$1200 / robot / year

5,000 robots → \$6M annual maintenance revenue

Annual Revenue Potential

Hardware → \$1.5M

Subscriptions → \$12M

Maintenance → \$6M

Total Revenue/year → \$19.5M

Company Traction

Al Jazari-X Prototype

- Designed and built a fully functional Al Jazari-X prototype
- Manual and autonomous navigation with dynamic layout adaptation
- AI voice interaction and remote communication integrated
- Live camera surveillance enabled
- Modular hardware and software architecture supporting multiple use cases

Feature Validation

- Multi-functional demos: patient assistance, visitor guidance, item delivery, and monitoring
- Hands-free, voice-controlled interaction
- Proven feasibility of combining care, engagement, and logistics in one robot

Execution Speed & Capability

- Rapid prototyping and iteration cycle
- End-to-end system developed in-house (hardware, firmware, software, AI)
- Features adaptable to different environments and use cases

Readiness for Pilots

- Platform ready for controlled pilot deployments
- Designed for real-world hospital layouts and home environments
- Roadmap in place for safety hardening, certifications, and scaling

Go-to-Market Strategy

Target Customers

- Small and mid-size hospitals, clinics, and home-care providers seeking cost-effective service robots
- Families looking for in-home patient support and companionship

Market Entry Approach

- Pilot deployments in partner hospitals and care facilities
- Demonstrations and hands-on trials to showcase capabilities

Sales & Distribution Channels

- Direct sales to hospitals and healthcare chains
- Strategic partnerships with medical device distributors
- Online channels for home-care units

Pricing & Revenue Model

- Hardware sales for robot units
- Recurring AI & software subscription for monitoring, analytics, and voice assistant services
- Optional maintenance & support packages

Marketing & Awareness

- Attend healthcare and robotics expos, conferences, and webinars
- Leverage case studies and pilot results to build credibility
- Digital marketing targeting hospital decision-makers and home-care communities

Scaling & Expansion

- Expand to larger hospitals and multi-facility healthcare networks
- Explore international markets with high demand for service robotics

Financial Overview

Revenue Streams

- **Hardware Sales:** Robots sold to hospitals and home-care users
- **Recurring AI & Software Subscription:** Voice assistant, monitoring, analytics, updates, and communication services
- **Maintenance & Support:** Preventive maintenance, remote/on-site support, warranty, and parts

Customer Economics

- **CAC (Customer Acquisition Cost):** ~\$2,000 per hospital/home unit (marketing, demos, onboarding)
- **LTV (Lifetime Value):** ~\$15,000 per hospital/home unit (hardware + recurring subscription + support over 5 years)

Profitability & Growth

- Scalable business model with strong recurring revenue from software subscriptions
- Early hardware sales fund R&D, pilots, and expansion
- Low CAC and high LTV ensure long-term profitability

Projected Sales & Revenue

Revenue Stream	Unit Price	Units/Robots	Period	Revenue
Hardware Sales	\$300	5000	One-time	\$1.5M
Software & AI Subscription	\$200	5000	Monthly	\$12M
Maintenance & Support	\$1,000	5000	Yearly	\$6M
Total Annual Revenue				\$19.5M

Meet The Team



Muhammad Azan
Systems Integration Engineer



Muhammad Ali
Lead Developer & Robotics Engineer



Muhammad Ayan
Quality Assurance & Testing Engineer



Al-Jazari-X

Thank you

Join Us

- Pilot partners to test Al-Jazari-X in real environments
- Strategic collaborators for technical and business growth
- Early-stage investment for scaling and product readiness

E-mail

aleee_shaikh@yahoo.com

Contact #

+92 343 344 3057

Website

<https://aleee-shaikh.github.io/Al-Jazari/>