

REI I. ZAIDI

Enterprise Multi-Agent Autonomous Swarm Systems Agentic AI Architect

Cognitive Runtime Synthesis & Ephemeral Micro-Harness
Engineering · MCP Transport Fabrics & Federated Decentralized
A2A Economies Networks Interoperability Mesh Infrastructure ·
Zero-Trust Micro-FinOps Tracing Attestation Governance &
Multi-Tenant Cross-Silo Domain Security Platform

Infuxio · Senior AI Engineer & Applied Data Scientist
Founder & CEO, Delta AI Engineering · venture since 2022,
registration in progress

Applied AI. Enterprise Architecture. Research with Purpose.

MISSION To translate research into accountable AI systems,
sustainable businesses and international collaborations.

Enterprise Agentic AI Architect whose career began in
enterprise software engineering in 2010 and progressed
through software architecture into applied AI, specialising
in sovereign enterprise autonomous systems and large-
scale multi-agent ecosystems. Designs self-correcting
cognitive fabrics, asynchronous event-driven
orchestration and multi-tenant agent infrastructures;
integrates multi-hop knowledge GraphRAG with polyglot
tool workflows for secure, deterministic and auditable
automation, with zero-trust security, real-time
observability and continuous human-in-the-loop
guardrails for regulated domains — healthcare, SAP ERP
and therapeutic EdTech.



Karachi, Pakistan (UTC+5) · English, Urdu · on-
site with relocation, hybrid or remote.

11+ yrs

Software engineering ·
enterprise delivery
since Dec 2010.

5+ yrs

AI practice · multi-
agent and retrieval
systems since 2022.

MSc AI

NED University of
Engineering and
Technology, 2025.

CPMAI™ intro

PMI course completed ·
21 systems built or in
build.

CONTACT

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ONLINE

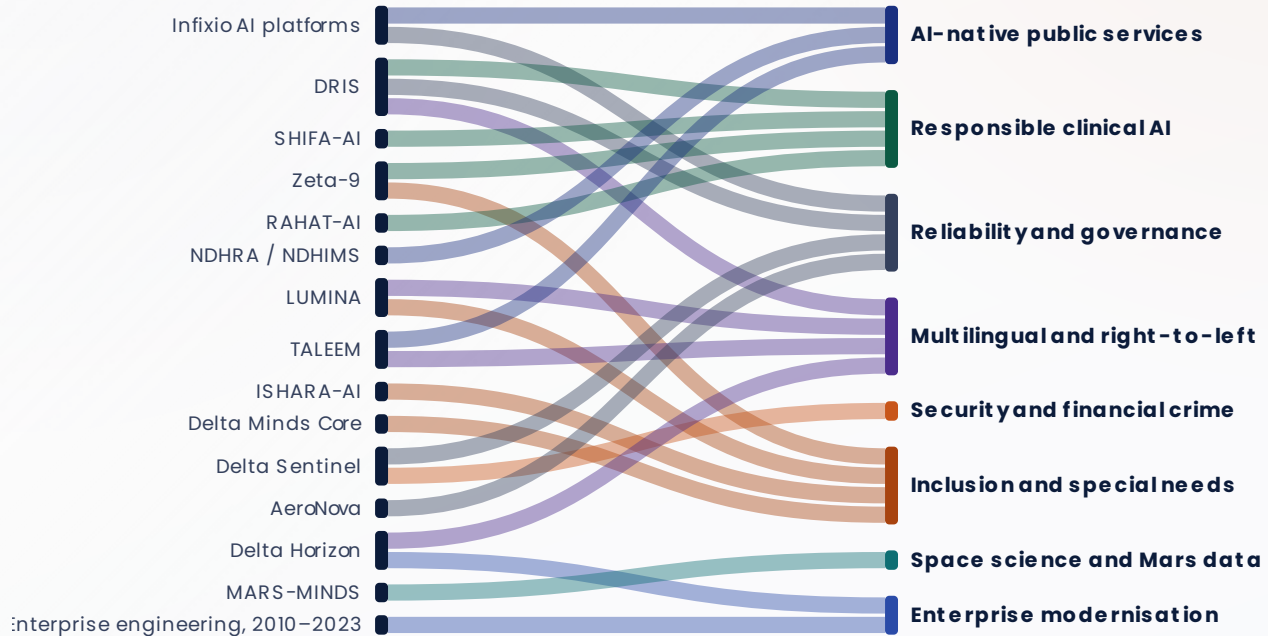
reizaidi.com · deltaengineering.ai
linkedin.com/in/reizaidi

HOW TO READ THIS PORTFOLIO

Each system carries a status label.

Where this work creates value

Each band links a system to a kind of value it delivers. Click a value to jump to its evidence; the animated version is on reizaidi.com.



AI-native public services

Production multi-agent and RAG platforms with evaluation, observability and cost guardrails; NDHRA, a national-scale health-record prototype; TALEEM for public education.

No government deployment yet; NDHRA runs on synthetic data. · From: Infixio AI platforms, NDHRA / NDHIMS, TALEEM

Responsible clinical AI

Every SHIFA-AI output passes human review; DRIS signs every tool call (SHA-256) and encrypts exports; Zeta-9 and RAHAT-AI keep professionals in charge.

HIPAA/GDPR-aligned design, not certification. · From: DRIS, SHIFA-AI, Zeta-9, RAHAT-AI

Reliability and governance

Release gates, automated rollback, drift monitoring, OAuth 2.1, RBAC and OWASP LLM & Agentic Top 10 controls; human approval before irreversible actions.

Readiness and alignment, not certification. · From: Infixio AI platforms, DRIS, Delta Sentinel, AeroNova

Multilingual and right-to-left

LUMINA in 58 languages with full RTL; TALEEM in 14 Pakistani languages; DRIS in 58 languages; RTL in Delta Horizon.

Arabic output not yet evaluated by native reviewers. · From: DRIS, LUMINA, TALEEM, Delta Horizon

Security and financial crime

Delta Sentinel: Neo4j graph correlation, HMAC honeytokens and an append-only Merkle chain of custody.

Prototype; evidence chain aligned to PECA. · From: Delta Sentinel

Inclusion and special needs

Zeta-9 special-needs hub, ISHARA-AI sign language, LUMINA IEP generation and the Delta Minds Core IEP hub.

Decision support only; professionals decide. · From: Zeta-9, LUMINA, ISHARA-AI, Delta Minds Core

Space science and Mars data

MARS-MINDS: terrain and dust-storm classification, landing-hazard and habitat models on public NASA and ESA imagery.

Public imagery; no space-agency affiliation. · From: MARS-MINDS

Enterprise modernisation

11 years of .NET, SharePoint, Project Server, Azure and Power Platform delivery; Delta Horizon as a Project Online replacement.

Enterprise roles documented 2010-2023. · From: Delta Horizon, Enterprise engineering, 2010-2023

Enterprise engineer first. AI engineer now. Researcher throughout.

REI I. ZAIDI (also published as Ruksh E Ibadat) is an AI engineer, software architect, applied data scientist and Founder & CEO of Delta AI Engineering, based in Karachi. Her career began in December 2010 in .NET delivery teams and progressed through enterprise SharePoint, Azure and Power Platform architecture to production generative AI. The career, now in its sixteenth year, runs in two eras: software engineering practice from December 2010 to April 2022, and AI practice from May 2022.

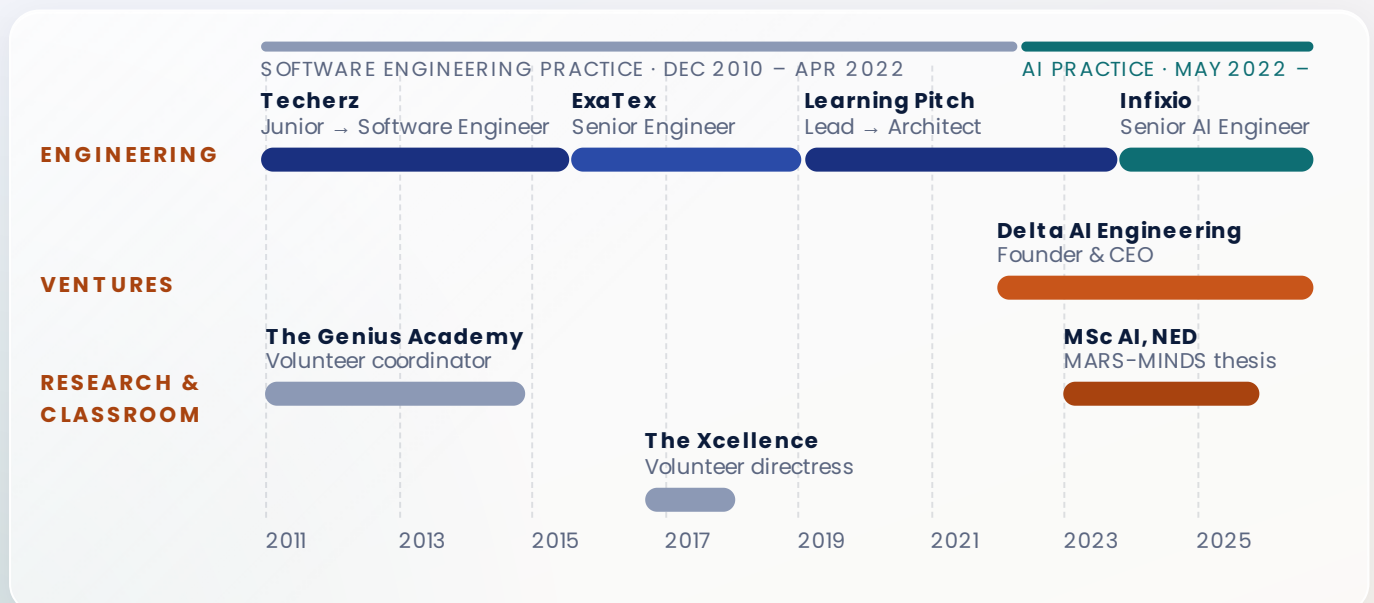
At Infixio she architects production multi-agent swarm systems, ephemeral micro-harnesses, the MCP transport fabric and multi-hop GraphRAG across Claude, GPT, Gemini and Mistral — with evaluation gates, OpenTelemetry tracing and per-tenant cost attribution — and works to HIPAA/GDPR-aligned design, EU AI Act readiness and ISO/IEC 42001-informed governance.

Through Delta AI Engineering she builds products in regulated healthcare, special-needs and multilingual education, enterprise intelligence and planetary AI. Alongside engineering she volunteered in early-years classrooms, including special-needs learners, across 2011–2018 (about five years in total), and later completed behaviour-technician training and skills-based CBT and DBT courses — training that shapes how her clinical and education products defer to professionals. These courses are not clinical licensure.

SIX CONNECTED STRENGTHS

- **Enterprise engineering and architecture** — 11 years of production engineering: .NET, SharePoint, Azure, SSRS, Power Platform.
- **Dependable agentic systems** — LangGraph, MCP, tool use, hybrid RAG, evaluation, observability.
- **Entrepreneurship and product** — Delta AI Engineering; ASPIRE NIB IV finalist (Zeta-9).
- **Human-centred healthcare and inclusive education** — human review by design.
- **Scientific curiosity** — MARS-MINDS planetary AI research.
- **Technical leadership and mentoring** — teams, standards, interviews, AQLENTIS mentor reviews.

Career timeline



MARS-MINDS: Martian Intelligent Navigation and Decision System

MSc thesis, NED University: deep learning on orbital imagery to classify terrain, find habitat sites, judge landing hazards, plan missions and forecast dust storms. Version 2 (in development) coordinates five specialist models with a reinforcement-learning controller across 21 public NASA and ESA datasets.

Results as reported by the author from thesis experiments. Public NASA, JPL and ESA imagery; no space-agency affiliation.

99.91%

25-class mission planning · EfficientNetV2 + ConvNeXtV2

F1 0.97

Safe-landing hazards · MarsLanderNet

94.00%

8-class terrain and dust storms · InceptionV3

mAP 0.681

Habitat detection · AstroVisionNet

ORBITAL PASS: TERRAIN CLASSES RESOLVE AS THE SCAN MOVES



other crater dark dune slope streak bright dune impact ejecta swiss cheese spider

HiRISE v3 class names · 8 classes · synthetic illustration of the classification task, not thesis output

V1 — THESIS PLATFORM (2025)

- InceptionV3 terrain and dust storms; dual-backbone mission planning
- AstroVisionNet habitat detection; MarsLanderNet landing hazards
- MarsHybridNet three-branch ensemble on NASA HiRISE v3, adaptive meta-controller, Darian calendar

V2 — IN DEVELOPMENT

- MarsVisionMamba, MarsHabitatNet, MarsLanderViT, MarsPlannerGPT, Mars Dust Storm Forecast
- RL controller · 21 datasets, 600 GB+ · Grad-CAM · Triton; a minimal public v1 release first

MANUSCRIPTS IN PREPARATION

- **Automated Mars Feature Classification Using InceptionV3** · 8-class · 94.00%
- **MarsLanderNet: DenseNet-based safe landing on Martian terrain** · 3-class EDL hazards · F1 0.97
- **AstroVisionNet: terrain classification for habitat construction and dust-storm risk** · Faster R-CNN + ResNet-50 · mAP 0.681
- **Parallel dual-backbone classification for Mars mission planning** · EfficientNetV2 + ConvNeXtV2 · 25-class · 99.91%
- **Mars Dust Storm Forecast** · Faster R-CNN + ConvLSTM · multi-sol forecasting
- **MARS-MINDS v1 and v2: integrated five-model frameworks** · Elsevier Q1 target

Elsevier Q1 (Scopus) and IEEE targets; abstract submitted to MedGU 2026, Cairo. Not presented as published.

BEFORE AND AFTER

Mission-planning accuracy against the published Mars-TRP 2022 baseline. Research result; no ROI is claimed.

Timeline: MSc Jan 2023 – Dec 2025 · thesis 2025 · v2 from Mar 2026 · MedGU 2026, Cairo, Nov 2026.

BEFORE

88.00% Mars-TRP 2022 baseline

AFTER

99.91% MARS-MINDS dual-backbone

+11.91 points · 25-class mission planning

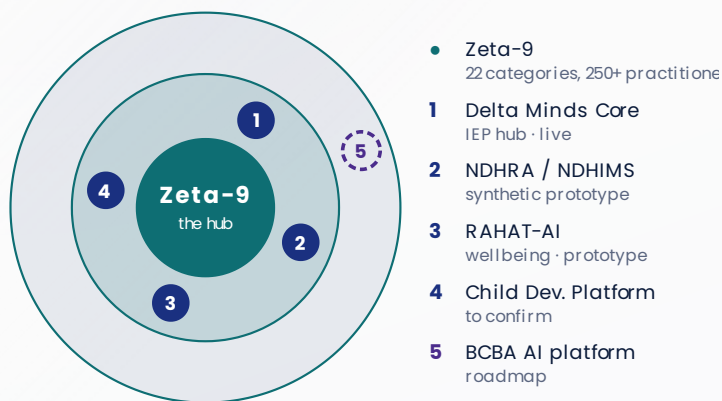
Supervision: Dr. Muhammad Ali Ismail, Chairperson, CISE · Mr. Uzair Abid, Team Lead, NCBC, NED University.

DRIS and SHIFA-AI: clinical AI that defers to clinicians

DRIS V1.0 · ARCHITECTURE · ARROWS = DATA FLOW · ♦ INTEGRATION POINT



THE SPECIAL-NEEDS HUB · ONION DIAGRAM



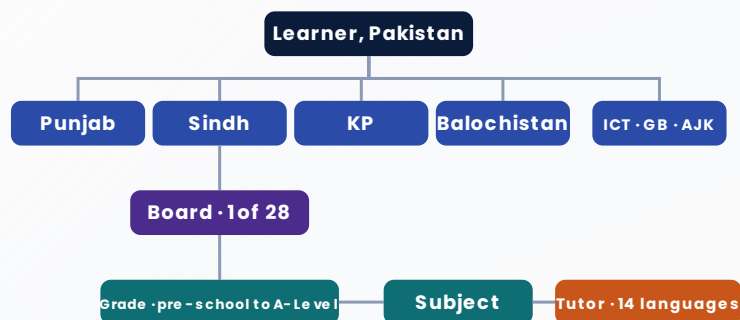
DRIS v1.0 **Live** Agentic pharmacovigilance on the public OpenFDA API; median agent response under 1.5 s (author's measurement); v2.0 in development.

SHIFA-AI **To confirm** Refusal-aware orchestration: when a model declines or confidence drops, the graph reroutes or escalates instead of guessing.

ASD screening analytics **Completed 2024**
Power BI / DAX over 4,460 screening records from Pakistan for therapy planning and IEP design. Screening support, not diagnosis.

LUMINA and TALEEM: learning plans in the learner's own language

TALEEM · TREE FROM LEARNER TO TUTOR



Taleem roshni hai — education is light. MVP delivered; LangChain RAG, SSE tutor, Next.js 16, Expo.

LUMINA **Active build** IEP generation across 30+ SEN boards and 200 subjects in 58 languages with RTL; a per-board schema and citation layer, BM25 + FAISS retrieval, median IEP under 3 s (author's measurement); teacher approves every plan.

ISHARA-AI **To confirm** Pakistan Sign Language ↔ Urdu and English, text and speech.

Stratix with EAG **Active build** A guarded article generator so students use AI safely.
AQLENTIS **Live** residency platform.

Training certificates do not confer clinical licensure. "HIPAA/GDPR aligned" is design intent, not certification.

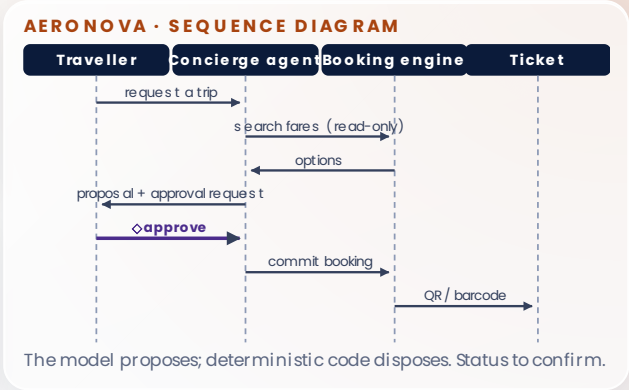
Systems for finance, operations and the enterprise

Delta Sentinel Prototype Fraud intelligence: Neo4j entity graph, LangGraph investigation agents, HMAC honeytokens, Merkle chain of custody (PECA s.38).

Delta Horizon Active build PPM for PMOs, 14 modules, RTL, Tauri 2 desktop; replaces Microsoft Project Online, retired 30 Sep 2026

Resume & CV Generator Live ATS-optimised CVs for five countries' conventions; PDF / DOCX.

VehicleIQ MVP **Lead agent** Vehicle valuation for Pakistan and the Gulf; omnichannel lead qualification for one client.



Six layers between a request and a released action

GATED LAYER STACK

1 Swarm orchestration layer
Breaks the request into tasks; failed steps retry

2 Cognitive runtime & micro-harness layer
Builds a one-off runtime with budgets and an output contract

◇ **Output matches contract?** yes | no → retry

3 Transport & interoperability fabric
Carries calls over MCP and A2A with versioned contracts

4 Zero-trust & multi-tenant security plane
Checks identity and permission on every call

◇ **Authorised?** yes | no → denied, logged

5 Tracing, attestation & micro-FinOps
Traces, signs and costs every step

6 Governance & HITL guardrails
Evaluation, output checks, then a person approves

◇ **Evaluation passed, human approved?** yes | no → rolled back
→ **Released action · cost per successful task is the KPI**

The working stack, the standards tracked and how delivery is run

STANDARDS · COMPLIANCE MATRIX

	MCP	A2A	OTEL GEN AI	FOCUS 1.4	OWASP LLM / AGENTIC	NIST 800-207	EU AI ACT	ISO/IEC 42001
Human approval gates					●	●	●	●
Signed audit trail			○	○	○	○	○	○
Least privilege, tenant isolation					●	●	○	○
Tracing of every step		○	●				○	○
Cost attribution per task			○	●				
Agent and tool interop		●	●		○	○		
Evaluation release gate					○	○	○	○

● designed to align · ○ partly covered · alignment, not certification

WORKING STACK

Experience: Next.js 16 · React 19 · Tailwind CSS 4 · Motion · Liquid Glass UI · Tauri v2 desktop (Rust) · XState 5

Services & contracts: Python · TypeScript · FastAPI · Connect RPC / Protobuf · MCP · A2A · .NET (enterprise years)

Intelligence: Claude · GPT · Gemini · Mistral · LangGraph · vLLM · LoRA / QLoRA · PyTorch · Hugging Face · evaluation-driven routing

Data: PostgreSQL / pgvector · Redis · Qdrant · Neo4j · ClickHouse · SQL Server

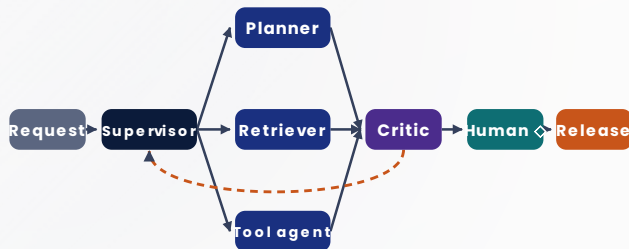
Infrastructure & delivery: Docker · Kubernetes · Helm · Terraform · GitHub Actions · Azure (AI Services, DevOps, PaaS) · Cloudflare

DELIVERY · SWIMLANE · ◇ DECISION GATE					
	Discover	Design	Build	Evaluate	Operate
Client	Problem, baseline, success metrics	◇ Scope and plan sign-off	Weekly demo	◇ Approves release	Outcome vs baseline
Architecture & product	Opportunity map, risks	Architecture, costed plan, budgets	Design reviews, mentoring		Cost and latency reports
Engineering		Typed contracts, state machines	Vertical slice, end to end	Fixes regressions	Upgrades, hotfixes
Evaluation & QA		Evaluation set from metrics	Regression evals in CI	◇ Release gate: evals + output checks	
Operations			CI/CD, infrastructure as code	Staged rollout	Tracing, alerts, rollback

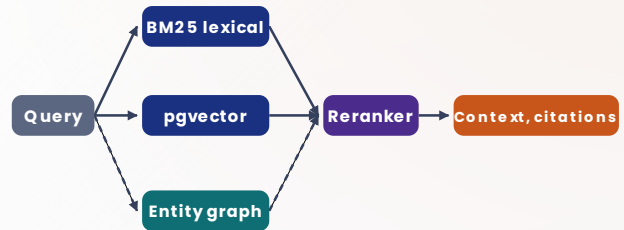
SKILLS IN FULL

Agents, models, retrieval and governance

ORCHESTRATION · DAG



RETRIEVAL · KNOWLEDGE-VECTOR GRAPH



MODELS · SWAPPABLE MODULES

Router · quality, latency and cost budgets · fallbacks



≠ any engine can be swapped; governance and prompts stay outside the model

GOVERNANCE · CONTROL PLANE

Policy control plane · Open Policy Agent · least privilege · per-request authorisation

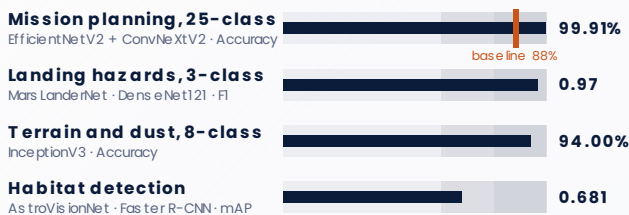
User OAuth 2.1 token → Agent scoped, delegated → Tool least privilege → Data · RLS

Audit log · SHA-256 signed, append-only, every call

In production: LangGraph swarms · micro-harnesses · MCP and A2A · Claude, GPT-4o, Gemini, Mistral with fallback routing · vLLM · enterprise RAG and GraphRAG · OAuth 2.1, RBAC, OWASP LLM & Agentic controls, signed tool calls, tenant isolation. **Built:** CrewAI · AutoGen · PydanticAI · LoRA / QLoRA / DPO · BM25 + FAISS · Neo4j · Whisper, ElevenLabs, LiveKit voice.

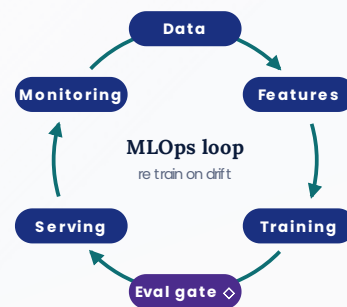
Machine learning, vision, operations and platform

REPORTED RESULTS · BULLET CHART



Author's thesis results; bands 0.6 / 0.8 / 1.0.

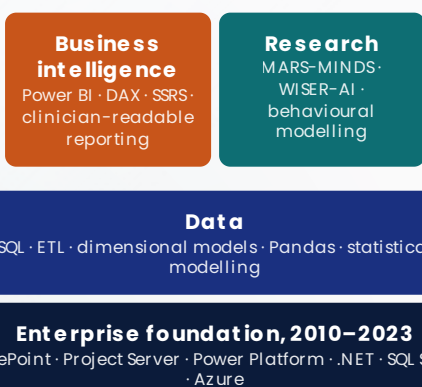
OPERATIONS · CYCLE DIAGRAM



In production: scikit-learn · XGBoost · LangSmith regression gates · drift detection · OpenTelemetry · GitHub Actions · Docker · Kubernetes · Python 3.12 · FastAPI · PostgreSQL · Redis · Next.js · React 19 · Azure · Cloudflare. **Built:** PyTorch · TensorFlow · InceptionV3 · DenseNet121 · EfficientNetV2 · ConvNeXtV2 · ViT · Faster / Mask R-CNN · Grad-CAM · MediaPipe · Kafka · ClickHouse · Expo · Tauri 2.

Data, BI, research and the enterprise foundation

WHAT RESTS ON WHAT · PYRAMID



WHERE BI AND RESEARCH OVERLAP · VENN



In production: SQL · Pandas · ETL · dimensional modelling · Power BI · DAX · SSRS · statistical modelling. **Enterprise years, 2010–2023:** SharePoint · Project Server · Power Platform · RPA · .NET · C# · SQL Server · Azure DevOps. **Exploring:** Deep Agents · Temporal · DSPy · RAGAS · MLflow 3 · Microsoft Fabric.

Systems at a glance

21 systems with a declared status: 14 delivered, 3 in build, 4 being confirmed. Click any system to open its case study; upcoming work is on the roadmap.

SYSTEMS

21

in the portfolio

DELIVERED

14

67% of the portfolio

IN BUILD

3

active development

TO CONFIRM

4

status being confirmed

DELIVERY

67%

delivered

STATUS

Live

4

MVP / operating

3

Prototype delivered

3

Research completed

2

Completed engagement

2

In build

3

To confirm

4

BY AREA · TREEMAP

8

Health

5

Enterprise

3

Education

2

Research

1

Inclusi

1

Client work

1

AQLEN

Delivered

14

MARS-MINDS v1

Research · Thesis completed

Zeta-9

Health · Operating network

NDHRA / NDHIMS

Health · Synthetic prototype

ASD screening analytics

Health · Completed 2024

Delta Sentinel

Enterprise · Prototype delivered

VehicleIQ

Enterprise · MVP delivered

Lead-response agent

Client work · Client solution design

DRIS

Health · v1.0 live · v2.0 in dev.

Delta Minds Core

Health · Live

RAHAT-AI

Health · Prototype

T ALEEM

Education · MVP delivered

Resume & CV Generator

Enterprise · Production live

WISER-AI

Research · Benchmark study

AQLENTIS & PADDLE app

AQLENTIS · Live

In build

3

LUMINA

Education · Active build

Stratix (with EAG)

Education · Active build

Delta Horizon

Enterprise · Active build

To confirm

4

SHIFA-AI

Health · Status to confirm

Child Development Platform

Health · Status to confirm

ISHARA-AI

Inclusion · Status to confirm

AeroNova

Enterprise · Status to confirm

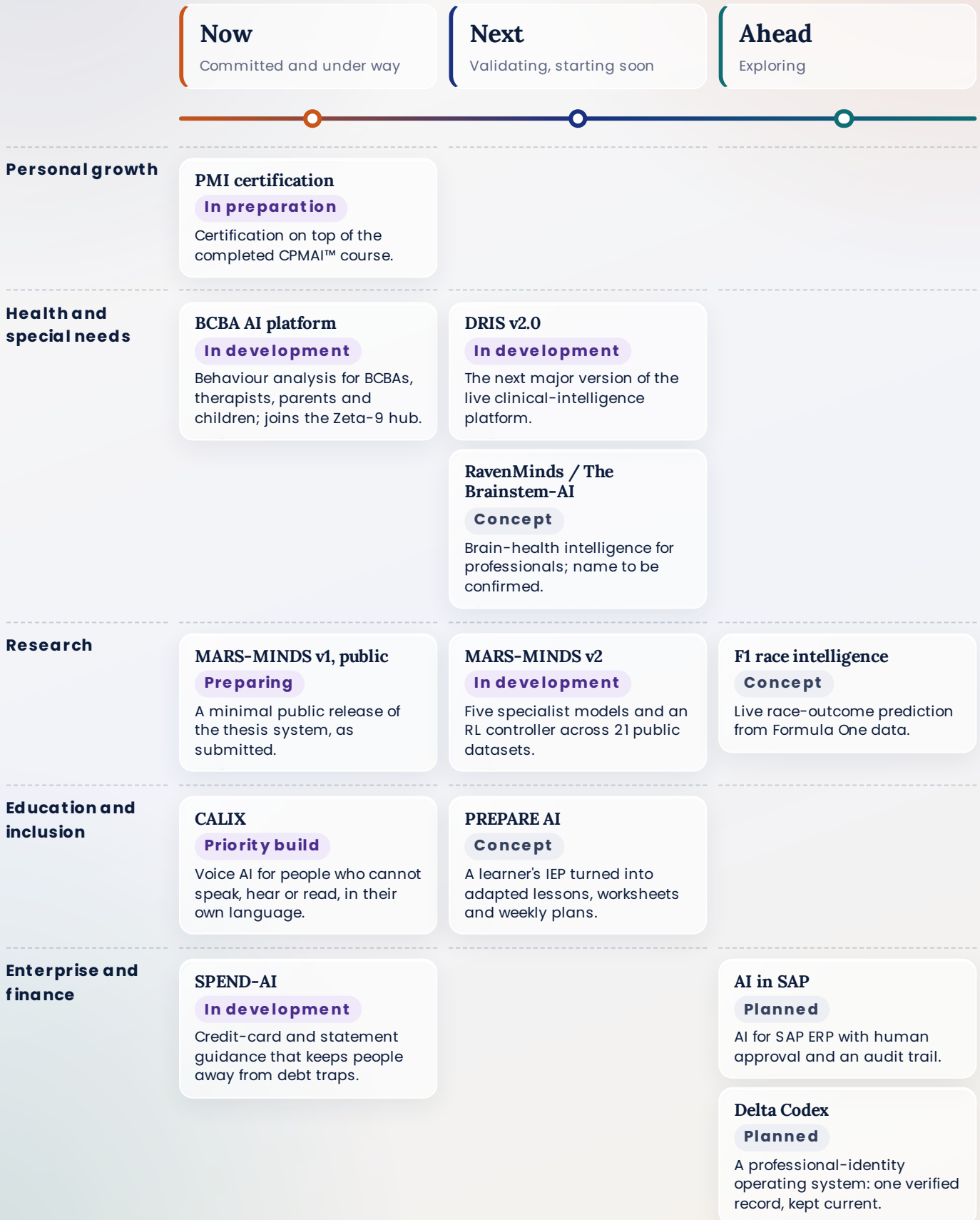
REI I. ZAIDI · Portfolio · Systems at a glance

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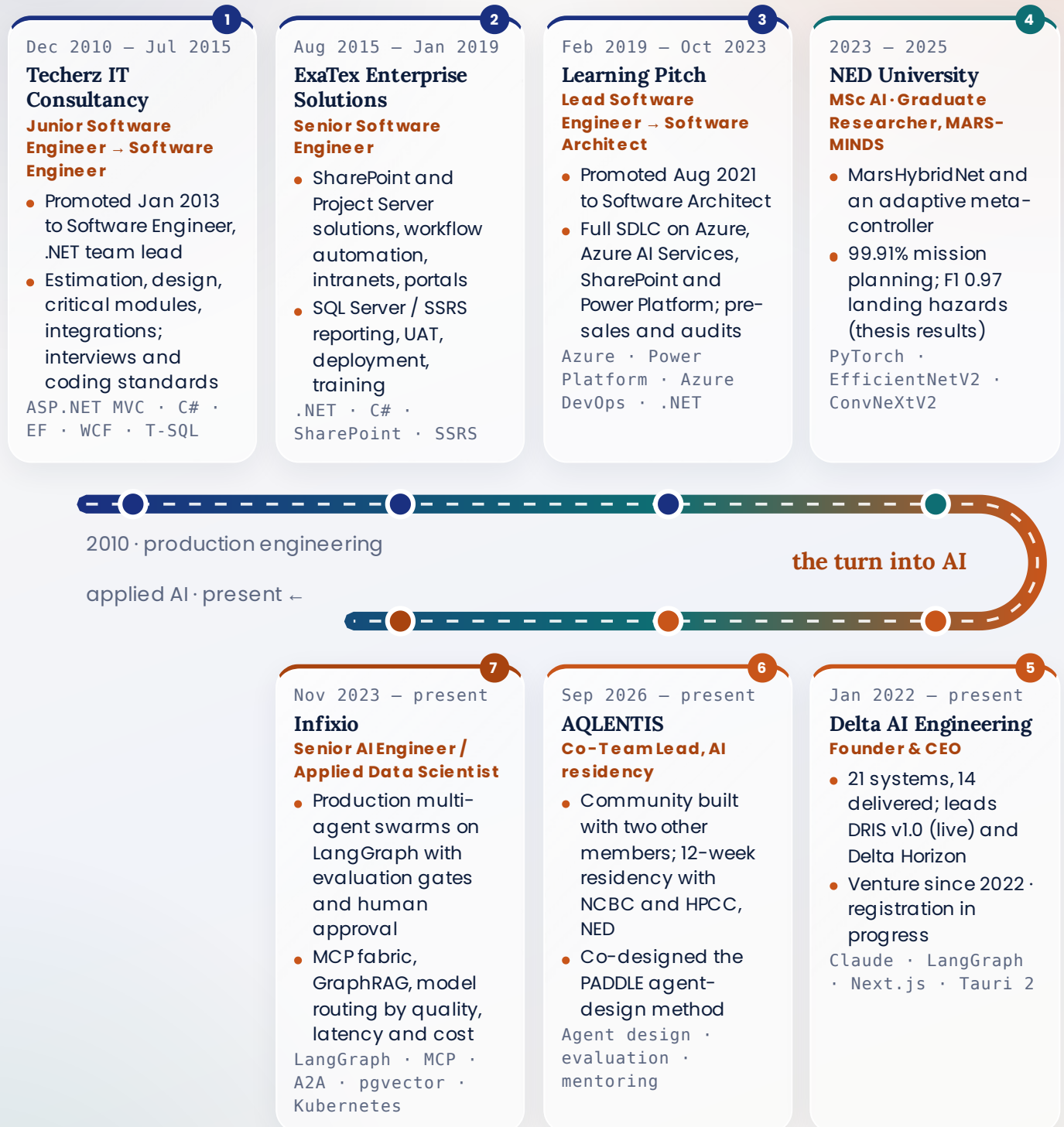
The roadmap

A Now · Next · Ahead route map: work grouped by how certain it is, not by promised dates. Personal growth and projects run side by side, kept apart from the dashboard so finished and unfinished systems are never mixed.



From production engineering to applied AI

Since December 2010, one road: three engineering firms, then a master's in AI, a venture, a residency community and production AI. Follow the route left to right, then back along the bottom.



Voluntary: Montessori Directress, The Xcellence Montessori and Primary School (Sep 2016 – Jan 2018) · Coordinator, Day Care and Montessori, The Genius Academy and Day Care Centre (Jan 2011 – Nov 2014), Karachi.

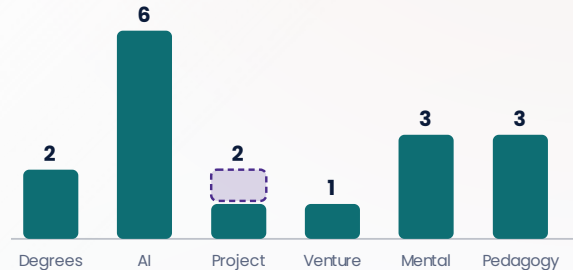
Degrees and the paper trail, in charts

Two degrees bracket the career: computer science in 2010, artificial intelligence in 2025. Between and around them sit data, agentic-AI, venture, project-management, clinical-skills and pedagogy training.

CREDENTIAL MIX · WAFFLE, ONE SQUARE EACH · 16 COMPLETED



PROGRESS BY AREA · SOLID COMPLETED · DASHED IN PREPARATION



LEARNING TIMELINE · DOT PLOT BY TYPE, 2007 – TODAY



- 1 BSc Computer Science · Hamdard University
- 2 MSc Artificial Intelligence · NED University · thesis MARS-MINDS
- 3 Learning and Teaching EAP Writing · SPELT
- 4 Diploma, Early Childhood Education · IECED · Sindh Board of Technical Ed.
- 5 RBT 40-hour training course · Trusted Support Therapeutic Clinic
- 6 PG Certificate, Data Analytics & Mining · NED Academy, CCEE
- 7 Certificate Diploma, CBT · MedicPro International Academy, UK
- 8 DBT skills-based course · MedicPro International Academy, UK
- 9 Gen AI to Agentic AI: Full-Stack · NCBC, HPCC and NED University
- 10 AI Agents Core Components · O'Reilly
- 11 ASPIRE Silicon Valley Cofounder Training · Batch 2
- 12 Intro to Cognitive PM in AI (CPMAI)™ · PMI · course, 3 PDUs
- 13 PMI certification · in preparation

Also completed, undated here: Claude Practitioner's Guide to AI Agents (GenAI.academy) · Business Intelligence (NED University, CIS) · Machine Learning A-Z (40 sections) · Montessori Diploma.

DEGREES

MSc Artificial Intelligence, NED University, CISE, Jan 2023 – Dec 2025; result declared Dec 2025. Coursework: machine and deep learning, intelligent system design, big data analytics, advanced AI, data mining. **BSc Computer Science**, Hamdard University, Karachi, 2007 – 2010.

READ WITH CARE

CPMAI™ is a course certificate (ID 136280232429, 3 Oct 2026), not the PMI-CPMAI™ certification. RBT 40 hours is a course, not RBT certification. Clinical and SEN certificates inform product design and do not confer licensure; a provider's EQF alignment is not a regulated equivalence.

Degrees and experience letters were issued under the name Ruksh E Ibadat; professional name REI I. Zaidi.

Three ladders, one direction

Read each ladder from the bottom up. The volunteer classroom years run beside the engineering career and lead, through clinical and SEN training, to the special-needs and education products at the top.

WHERE THE THREE LADDERS MEET

Applied AI for health, special needs and education

Zeta-9 · LUMINA · TALEEM · the BCBA AI platform

Technology and AI

Next

PMI certification
In preparation

2026

Introduction to CPMAI™ (course)
Project Management Institute

2026

AI Agents Core Components · Claude Practitioner's Guide
O'Reilly · GenAI.academy

2026

GenAI to Agentic AI: Full-Stack Development
NCBC, HPCC and NED University

2023–2025

MSc Artificial Intelligence
NED University · MARS-MINDS thesis

2022

Postgraduate Certificate, Data Analytics and Data Mining
NED Academy

2007–2010

BS Computer Science
Hamdard University, Karachi

Education, care and special needs

2026

DBT skills course
MedicPro International Academy

2025

CBT certificate diploma
MedicPro International Academy

2022

RBT 40-hour training (BACB Task List)
Course only, not certification

2017–2018

Diploma in Early Childhood Education · Montessori Diploma
IECED Karachi

2016–2018

Volunteer Montessori directress
The Xcellence Montessori and Primary School

2016

Learning and Teaching EAP Writing
SPELT

2011–2014

Volunteer coordinator, day care and Montessori
The Genius Academy and Day Care Centre

People and community

2026

AQLENTIS, Co-Team Lead
A community built with two other members

2026

AI Agentic Society · The ASI Society · PEGASUS AI Society
Founder

2026

ASPIRE NIB IV finalist · Silicon Valley Cofounder Training
Zeta-9, one of 24 from 800

2025–26

STEM Talent Search with NEDUET
Three rounds advanced

2013

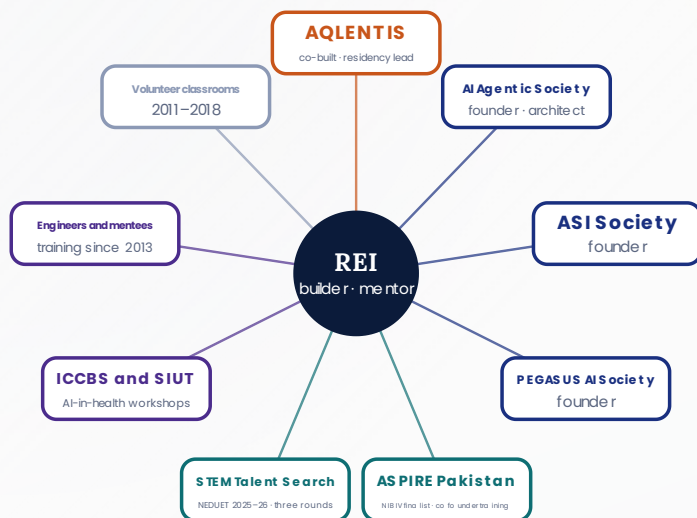
In-house training, coding standards, technical interviews
Techerz, then every role since

2011–2018

Volunteer classrooms: IEPs, behaviour support, family liaison
Alongside full-time engineering

Building the people around the technology

SOCIETIES AND PROGRAMMES · ECOSYSTEM MAP



Orange: co-built · blue: founded · teal: programmes and recognition · purple: teaching · grey: volunteer years. AQLENTIS runs a 12-week residency with NCBC and HPCC, NED University; the AI Agentic Society carries a governance charter, working groups and an open evaluation harness.

TEACHING AND MENTORING

- Workshop programme on AI in health, from its history to agentic systems, built for ICCBS and SIUT in Karachi
- Mentoring early-career engineers entering agentic AI
- In-house engineering training, coding standards and technical interviews since 2013
- Volunteer classrooms 2011–2018: classroom delivery, individual education planning, behaviour support and family liaison

POLICY

Author of a strategic briefing on national AI governance and industrial integration, addressed to twelve institutions (May 2026, restricted circulation).

WORKSHOPS AND ADVOCACY (ATTENDED)

- 1st International Child PsyCon 2025, *Healthy Minds, Bright Future* — King Edward Medical University, Lahore / PPRC (Oct 2025)
- Opening Minds Talk Series (Aug 2025): Ep. 15 *The Audacity to Trust Yourself*, Ep. 18 *Not Naughty, Just Wired Differently* · Becoming Your Own Safe Space (Project Yaqeen) · ADHD Awareness Webinar (Pulse Point)

WRITING (2026)

Inside the Machine: How an AI Assistant Really Works	Illustrated article, 17 pages, 15 original figures, 18-slide carousel
How Close Is Superintelligence?	Evidence-graded article, 19 references
Pegasus in 2026: An Evidence-Graded Briefing	19 pages, 61 graded sources, spyware-protection guide
Function Calling and Tool Use in Agentic AI	13 pages, cross-checked against the MCP and A2A specifications
Why MARS-MINDS uses five models and a controller	Architecture essay
HIPAA-aligned agentic AI: what the audit log has to know	Audit-log design essay
IEP generation across thirty SEN boards	Schema-design essay
Master technology stack reference · The AI landscape ahead	Stack reference; eleven-part briefing

The companies behind the systems

In engineering, Δ means change. Delta AI Engineering designs, builds and operates production AI to produce a specific, measurable change in how an organisation works, and to prove it happened.

STRUCTURE

REI I. ZAIDI

Founder & CEO

Delta AI Engineering

Venture since 2022 · registration in progress

Designs, builds and operates the systems in this portfolio.

Health **8** Enterprise **5**
Education **3** Research **2**
Inclusion **1** Client work **1**

AQLENTIS

Community · built with two other members

AI residency with NCBC and HPCC, NED University; PADDLE agent-design method and app.

Live platform **1**

Healthcare AI company

Planned · to be registered

A second company for healthcare AI; name to be announced.

HOW AN ENGAGEMENT RUNS

Discover

Baseline, ranked opportunities

Design

Architecture, costed plan

Build

One production workflow

Evaluate

Regression gates, tracing

Operate

Monitoring, cost per task

Discovery sprint ends with an opportunity map, an architecture and a costed plan

Vertical slice: one workflow, end to end, with evaluation

Embedded engineering

AGENTIC SYSTEMS

Multi-agent workflows with tools, memory and human approval at the points that matter.

RETRIEVAL AND KNOWLEDGE

Hybrid search, reranking and knowledge graphs that answer from your own documents, with citations.

CLOUD AND PLATFORM ENGINEERING

Containerised services, CI/CD, infrastructure as code and observability from the first commit.

EVALUATION AND LLMOps

Regression evaluations, tracing, release gates and cost tracking so quality is measured, not assumed.

APPLIED DATA SCIENCE

Forecasting, classification and analytics that feed decisions, with honest error bars.

AI STRATEGY AND ARCHITECTURE

Use cases ranked by value, feasibility and risk; build, buy or wait; what it should cost to run.

Services describe what is offered, not past client results. Every consequential action pauses for human approval; quality, latency and cost targets are agreed up front. deltaengineering.ai

WORKING TOGETHER

Bring a hard problem.

Agentic AI in production, regulated healthcare AI, multilingual and right-to-left retrieval systems, AI for public services, or a Mars-science research collaboration.

LOOKING FOR

Agentic AI architect and applied-AI leadership roles; PMI chapter volunteering on AI in project management; research collaborations — on-site with relocation, hybrid or remote.

IMPLEMENTATION PARTNERSHIPS

4–16 week engagements: agent harness design, evaluation and observability, human-in-the-loop controls, cost and latency tuning.

RESEARCH COLLABORATION

Planetary AI on public Mars datasets, including Hope; evaluation of clinical multi-agent systems.

WHAT AN EMPLOYER OR PARTNER GETS IN THE FIRST 90 DAYS

Days 1–30

Map workflows, data and risks; agree success metrics, cost per successful task, and where humans must approve.

Days 31–60

Ship one complete vertical slice with tracing, regression evaluations and structured-output validation.

Days 61–90

Harden: guardrails, audit trail, runbooks, handover and a measured before/after report.

CONTACT

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LOCATION AND LANGUAGES

Karachi, Pakistan (UTC+5) · English, Urdu · references available on request

R

Research and reasoning

Evaluation, GraphRAG, PyTorch, PEFT / LoRA

E

Engineering and entrepreneurship

Python, FastAPI, PostgreSQL, Docker, Kubernetes

I

Intelligence and innovation

LangGraph, MCP, A2A, context and memory engineering

PERSONAL DETAILS AND AVAILABILITY

Nationality: Pakistani · Languages: English (professional), Urdu (native) · Based in Karachi (UTC+5), interviews across time zones · Available for international relocation, subject to employer sponsorship · References, experience letters, transcripts, certificates and detailed architecture and evaluation evidence on request. Earlier documents are issued under the name Ruksh E Ibadat.

"An Apex of AI." — REI's personal motto