

Maze Intelligence

Robotics AI algorithms, system integration and visual intelligence —
engineered in Hong Kong, deployed across Asia.

ENTITY

Maze Intelligence Limited

REGISTERED

Hong Kong · BR 79342178

COVERAGE

Robotics · Vision · Integration

DELIVERY

EN / CN · HK + Mainland

STRATEGIC PARTNERS

WAVES · GUANXIANG

mazeintelli.com

About Maze Intelligence

Hong Kong-registered robotics AI service provider · Strategic partners: WAVES (system integration) and Guanxiang (visual AI)

Maze Intelligence Limited is a Hong Kong-registered technology company focused on robotics AI algorithms, visual intelligence and system integration. We deliver end-to-end capabilities — from core algorithm SDKs to on-site deployment — for clients across Asia and the Greater Bay Area.

Our technology spans the full perception–decision–execution loop: machine vision and multi-sensor fusion, motion planning and control, multi-modal interaction and a robust secondary-development platform. Algorithms are exposed as standardized SDKs and APIs that engineering teams can integrate directly into their own products.

To turn algorithms into deployed systems, Maze works closely with two strategic partners. **WAVES (Guangzhou WeiLang Network Technology)** provides digital system delivery, full-stack software engineering, IDC and network infrastructure. **Guanxiang (Guangzhou Guanxiang Smart Technology)** supplies advanced visual analysis and reasoning capabilities built on a multi-modal visual foundation model. Together we deliver a complete "algorithm + system + visual intelligence" stack.

COMPANY	Maze Intelligence Limited
REGISTERED	Hong Kong
INCORPORATED	6 December 2025
BUSINESS REG.	79342178
SCOPE	Robotics AI R&D · Tech services · Secondary development · Smart-system solutions
FOCUS	Robotics AI · Motion planning · Multi-modal perception · Video analytics · Visual reasoning
PARTNER – SYSTEM	WAVES (digital transformation, TCO-zero maintenance)
PARTNER – VISION	Guanxiang (human-brain-style visual reasoning)

Three service lines, one delivery stack

Maze core algorithms + WAVES system integration + Guanxiang visual reasoning — co-delivered under one engagement

A • ROBOTICS AI

Algorithm SDK & API for robot OEMs

Production-grade robotics AI modules exposed as standardized SDKs and APIs — ready for engineering teams to integrate into their own robot products.

- › Visual perception (detection, segmentation, SLAM)
- › Motion planning & control (wheeled / legged / arm)
- › Multi-modal decision & interaction
- › Simulation + Sim2Real pipeline

B • SYSTEM INTEGRATION

Custom robotics deployment

Joint delivery with WAVES: from use-case scoping and vendor shortlisting through to on-site deployment, network and IDC infrastructure, and post-launch lifecycle support.

- › Use-case scoping & vendor match-making
- › On-site integration & commissioning
- › Network & IDC infrastructure build
- › Long-term maintenance & TCO commitments

C • VISUAL AI

Zero-shot visual reasoning

Powered by Guanxiang's multi-modal visual foundation model — deploy new visual tasks in minutes via natural-language description, with zero training data required.

- › Zero-shot task definition
- › Minute-level algorithm creation
- › Hour-level deployment
- › Full compatibility with existing cameras

Robotics AI — delivered engagements

Eight production and pre-production engagements across energy, life sciences, medical devices, marine, logistics and textile inspection

• MAZE INTELLIGENCE LIMITED · ROBOTICS AI

#	ENGAGEMENT	SECTOR	SCOPE & CAPABILITY
01	Inspection robot — visual & manipulation	Energy	Quadruped / wheeled robot with vision-based meter reading and equipment state recognition; supports part-replacement tasks. Algorithm + secondary development for the robot OEM.
02	Lab instrument operation robot	Life Sciences	Humanoid + AGV base autonomously operating pipettes and other lab instruments. Sim-validated feasibility, VLA training & teleop data-capture pipeline, dexterous-hand selection, on-site delivery.
03	Medical-device panel operation robot	Medical Devices	Vision locates buttons, knobs and on-screen UI; dexterous hand performs precise press/rotate/touch with force constraints and mis-trigger protection for medical-grade reliability.
04	Underwater robot — multi-modal inspection	Marine	ROV / AUV with visible-light + ultrasonic dual-mode perception. Image enhancement for turbid / low-light water; cross-modal fusion for structural defect detection.
05	Composite logistics robot — scan & pick	Smart Logistics	End-to-end barcode / QR reading + pick-and-place + AGV transport. Closes the scan-to-pick loop, replacing the inefficiency of separate manual scan and pick operations.
06	Textile fabric defect detection	Textile	Deep-learning model for on-line detection of holes, broken yarns and surface defects on woven fabric. Replaces manual visual inspection with edge inference.
07	Power-meter appearance inspection	Energy	Automatic detection of scratches, stains and assembly defects on meter housings. Standardised criteria, reduced false-negative rate, traceable inspection records.
08	Concrete structural defect inspection	Construction	Vision-based detection of cracks, spalling and honeycombing on concrete structures. Supports on-site supervision with defect localization and grading.

System integration — WAVES engagement track record

Eleven software, AI and infrastructure engagements delivered by WAVES, Maze's system-integration partner

• WAVES · STRATEGIC PARTNER · SYSTEM INTEGRATION

#	ENGAGEMENT	SECTOR	SCOPE & CAPABILITY
01	Smart warehouse WMS	Logistics	Self-developed WMS connecting PDA and PC; dynamic inventory + inbound / outbound scheduling; multi-warehouse coordination and batch traceability.
02	RAG knowledge base for art exam	Education	Private-domain RAG over admissions and course content; replaces keyword search with semantic Q&A. LangChain + FastAPI + Milvus / FAISS, local LLM, Vue3 frontend.
03	Frozen-food delivery dispatch	Logistics · F&B	B/S dispatch platform with intelligent route planning, driver track replay and temperature monitoring. Vue3 + Django REST + WebSocket, MySQL replication.
04	Audit firm OA workflow	Professional Services	Low-code + custom hybrid: paper-based sign-off moved online with multi-level review, electronic signature and audit trails.
05	Pharma plant network & IDC rebuild	Pharma Manufacturing	Network retrofit of legacy plant + new small-scale datacenter for ERP and GMP-compliant data storage. Huawei stack, LACP, AD, file-server hardening.
06	Cogeneration plant new-office build	Power Generation	Two-tier network design, office / industrial-network physical separation, incremental data migration to a new server cluster using Robocopy + verification.
07	Chemical plant IDC & HA cluster	Chemical Manufacturing	Production / office IT environment build-out with HA cluster for business continuity. Hyper-V, Ceph / VSAN, ACL hardening, anti-virus server deployment.
08	Electronics plant office cutover	Electronics Manufacturing	100-user office network one-shot cutover with file-server expansion, AD permission rebuild, Cat6 cabling and fiber backbone.
09	Shipyards full-coverage network	Shipbuilding	Three-tier network across office, production and warehouse zones; industrial-grade access switches; Wi-Fi 6 high-density coverage in the design hall.
10	Power plant IDC commissioning	Power	End-to-end commissioning: core switches, server cluster, virtualisation, AD, file services, security policy rollout.
11	Smart-park unified infra	Industrial Parks	Cross-zone network convergence with VLAN isolation, firewall hardening and full-stack delivery from cabling to AD + DNS + file services.

Visual AI – Guanxiang deployment track record

Nine visual-reasoning deployments by Guanxiang across government, public security, rail and industrial verticals

• GUANXIANG · STRATEGIC PARTNER · VISUAL AI

#	ENGAGEMENT	SECTOR	SCOPE & OUTCOME
01	Urban waterlogging detection	Government	Replaced a tier-1 internet vendor after accuracy shortfalls. Zero-shot detection of road and urban flooding; 100% recall on the 89 flooded frames out of 518 evaluation images.
02	Van overloading detection	Public Security	Built and deployed overnight during a province-wide traffic enforcement campaign. Effective-tip accuracy above 90% on overloaded 6–9-seat vans.
03	Typhoon tree-fall early warning	Government	Deployed 3 days before a major typhoon landfall; algorithm accuracy above 95% across 700+ monitoring points; 51 effective alarms during the storm.
04	Public-security behaviour analytics	Public Security	Five scenario classes (violence, crowd, partial undress, baton-wielding, unusual dress) tested at 94% average accuracy; some scenarios at 98–100%.
05	Rail equipment-mfg safety	Rail · Equipment	28 cameras, 8 scenario algorithms (fallen-person, sleeping on duty, harness check, flood-level monitoring). Person-fall 92.10%, harness check 90.76%.
06	Smart power plant	Power	Repurposes existing cameras and inspection robots; semantic anomaly detection + workflow-agent closed loop from detection through alert to rectification.
07	Smart logistics	Logistics	Unified video ingest and frame analysis across warehouse, dock and yard cameras; auto-flag of safety / operational anomalies; integrates with WMS and ticketing.
08	Chain-convenience-store patrol	Retail	Headquarter-deployable platform re-uses existing store cameras; people / goods / scene / safety four-axis coverage; standardised SLA-driven inspection rules.
09	Cross-vertical visual reasoning	Cross-vertical	Common foundation: text-described scenarios, zero-shot creation, hour-level deployment, full compatibility with existing camera brands.

Core team

Founding members hold PhD-level credentials across AI chip architecture, embodied intelligence, business development and data science

Allan Zeng

CEO

Former Senior R&D Manager, NVIDIA · AI chip architecture, heterogeneous computing, GPU optimisation, edge inference acceleration

Ken Zhang

CTO

US PhD candidate · MSc CityU · Embodied intelligence, robot learning (RL / IL), Sim2Real, robot vision, motion planning, HRI, vision foundation models, unmanned systems

Linda Hu

CCO

HKU Master's · Business development, sales and customer success, strategic partnerships, commercial landing

Dr. Vivian Wang

DATA SCIENTIST

US PhD · Data analysis, data-driven ML, statistical modelling, experimental evaluation, big-data processing and visualisation

Engagement models

Four modes — choose by stage, scale by outcome

MODE 01

Algorithm SDK / API licensing

License individual robotics AI modules — perception, planning, control, multi-modal — as SDKs and APIs. Drop into your existing robot stack; ship faster.

MODE 02

Custom algorithm development

For novel use-cases where off-the-shelf modules are insufficient: Maze engineers build custom algorithms on top of the foundation stack with full IP transfer.

MODE 03

System integration & deployment

Joint engagement with WAVES: from on-site scoping through network / IDC build, commissioning, and post-launch lifecycle support.

MODE 04

Visual AI solution deployment

Powered by Guanxiang's zero-shot visual foundation model — define a new visual task in natural language, deploy in hours, fully compatible with existing cameras.

WHAT YOU GET IN EVERY ENGAGEMENT

- ✓ Algorithm SDK / API + integration guide
- ✓ On-site commissioning & acceptance
- ✓ Documentation & handover in EN / CN
- ✓ Custom algorithm with IP transfer option
- ✓ Network + IDC build (where applicable)
- ✓ Post-launch maintenance & iteration

Why work with Maze

Three reasons international buyers and mainland integrators choose us as their robotics AI service partner

01

Full-stack algorithms with closed-loop ecosystem

Robotics AI + system integration + visual reasoning are delivered under one engagement. No relay losses, no translation gaps between algorithm teams and system teams.

02

Battle-tested across verticals

Energy, life sciences, medical devices, marine, logistics, textile, construction, government, public security — production deployments across 8+ verticals with documented outcomes.

03

Hong Kong + Mainland, EN / CN delivery

Hong Kong-registered entity with mainland engineering depth. Bilingual delivery, dual-timezone support, cross-border procurement experience.

Get in touch

We respond within one business day · Bilingual (EN / CN) · Hong Kong and Mainland time zones

Maze Intelligence Limited

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STRATEGIC PARTNERS

WAVES · Guanxiang

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