

CAPABILITY PROFILE · 2026

Hardware and software solutions with Agentic AI at the core

Production monitoring, workplace safety, and goods control. Built and deployed by the engineering team in Vietnam.

The hardware is the crossbow. Agentic AI is the arrow.

We build both.

A model sitting on a server can be highly accurate and still worthless, if it cannot see the production line and nobody acts on what it says. Value appears only where software touches equipment: which camera, mounted where, inference at the edge or on the server, who approves an alert, and what happens in the three seconds after. We take responsibility for that entire path: device selection, integration, models, the operator interface, and maintenance.

Nỏ Thần is a crossbow from the legends of Âu Lạc, ancient Vietnam, remembered for its precision and for loosing many arrows with a single pull.

6

production modules
delivered and
accepted

< 3s

SKU counting per
image

2

customers on paid
contracts

≥ 98%

minimum monthly
uptime, contractual

CAPABILITIES

Three capability pillars

Agentic AI core

An agent that watches the line, scores its own confidence, proposes a decision, and waits for a human to approve it. Specialised vision models (YOLOv8, SAHI) combined with vision-language models for checks defined in plain language.

Hardware integration

A DeviceProvider abstraction separates the image source from the analysis core. Supporting a new device line means writing a plugin, not touching the core. We supply equipment and do on-site deployment, not just software.

Security throughout

Device credentials encrypted at rest. Every file-viewing and download endpoint blocks path traversal. The system can run entirely inside the plant network.

Device integration matrix

DEVICE LINE	INTERFACE	NOTE
Open-standard IP cameras	ONVIF Profile S · RTSP	Live view, scheduled snapshots, recording and clip extraction.
IP cameras (VAPIX protocol)	VAPIX · ONVIF	Device control and stream access via protocol-level integration.
Edge AI on camera	ACAP	Running detection models directly on the camera.
IP cameras (ISAPI protocol)	ISAPI · SDK	Stream integration and device management.
Edge processing box	x86 · NVIDIA Jetson	On-site inference when data policy forbids server upload.
Point-of-sale devices	POS · scanner · QR printer	Part of VOMA platform phase 2.

EVIDENCE

SOAI POC: 6 modules accepted

126/126 automated test scenarios passed across 8 test suites (unit, integration, E2E, and stress tests with corrupted images and video).

MODULE	CAPABILITY	STACK
Packing video analysis	Extracts QR codes from packing footage and timestamps each order. Any complaint can be traced to its clip.	OpenCV · pyzbar · Celery
SKU image counting	Counts densely packed objects in under 3 seconds, returns an annotated image, records model version.	YOLOv8 · SAHI
Binary classification	New checks defined in plain language plus reference images, no retraining needed.	VLM · few-shot
Device management	Device registry, connection testing, credentials encrypted at rest.	FastAPI · Fernet
Live view & snapshot	Live streaming plus manual and scheduled snapshots.	MJPEG · Celery Beat
Video recording & export	Lists recordings and cuts clips to an exact requested time range.	FFmpeg

Engineering principle: failures must be loud

No silent fallback path, no swallowed exceptions. Corrupt video, a blurred QR code, a dropped camera connection, an FFmpeg failure: every fault surfaces as an explicit error via a custom exception hierarchy (SOAIException) with RFC-compliant HTTP responses and a log entry, rather than a plausible-looking result.

COMMITMENTS

Five commitments a partner can hold us to

- **Public roadmap.** Each platform's three phases are published and updated, with dates.
- **Your data is yours.** Full data export to an open format any time, no fee, no conditions.
- **Maintenance committed in the contract.** Response times and terms are written in, not left as "by agreement".
- **Transparent under due diligence.** Financial reports and architecture documentation provided during partner evaluation.
- **No hardware lock-in.** We supply equipment but never lock our software to our own hardware.

Support commitments

- Email and phone support during business hours.
- Business hours: 9:00-17:00, Monday to Friday.
- Response within 4 working hours.
- Minimum 98% monthly uptime.
- 24 hours notice before planned maintenance.

Company & contact

COMPANY	ADDRESS	EMAIL	PHONE
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This document reflects the company's capabilities: a working proof of concept (SOAI) and a trademark-registered commerce platform (VOMA). Certifications not yet held, such as ISO 27001, are stated as roadmap items, not claimed. See nothanagentic.vn/en/bao-mat for the full compliance roadmap.