

Palm Garden AI

Coherence Guard

Relational Infrastructure for Human-Facing Robots

A behavioral coherence layer that helps embodied AI act with timing, restraint, respect, and trust-preserving intelligence.

01



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The Gap in Human-Facing Robotics

As robots enter hospitality, care, retail, education, and domestic settings, intelligence alone is not enough.

Technical success ≠ relational success

A robot can complete a task and still damage trust.

Micro-timing matters

Distance, hesitation, interruption, and pressure shape human comfort.

A key layer is missing

Most stacks lack a pre-action check for socially coherent behavior.

What is technically possible is not always what is humanly appropriate.

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What Coherence Guard Does

Perception / Planning

Coherence Guard

Action

Pre-action evaluation

Checks candidate actions before execution.

Human-facing signal reading

Considers timing, distance, tone, hesitation, and disengagement.

Trust-preserving selection

Supports, reshapes, or vetoes actions that may erode trust.

Audit trail

Creates an interpretable coherence record for review.

The goal is not to replace autonomy, but to make autonomy more relationally coherent.

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Why This Layer Is Needed Now

01

Embodied AI is moving into real environments

Robots are leaving labs and entering daily human spaces.

02

Capability is accelerating

Foundation models are advancing faster than behavioral governance.

03

Trust becomes operational

Human comfort, boundary respect, and timing now affect adoption.

04

Infrastructure gap

The next category is not just more intelligence — it is relational infrastructure.

As AI moves from screens into bodies, behavior becomes infrastructure.

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Platform-Agnostic Architecture

Robot Inputs

Perception

State

Context

User Signals

Coherence Guard

TCOS

FIE

ESPDS

Behavior Outputs

Continue

Pause

Clarify

Assist

Withdraw

Handover

ROS 2 / SDK / API adapter

Edge or local deployment

Audit logging and review

Designed to sit above or beside existing robot stacks without replacing them.

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Priority Use Cases

Hospitality & Concierge

Greeting, orientation, tone control, and respectful distance.

Eldercare & Assistance

Gentle support, reduced pressure, and trust-preserving interaction.

Retail & Guidance

Helpful engagement without crowding or over-persuasion.

Reception & Public Interaction

Clear assistance, escalation logic, and graceful withdrawal.

Coherence Guard is most valuable wherever robots interact directly with people.

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Benchmark Behavior: Respectful Withdrawal

1.

Detect discomfort or boundary signal

2.

Pause and orient

3.

Acknowledge / soften

4.

Increase distance or reduce intensity

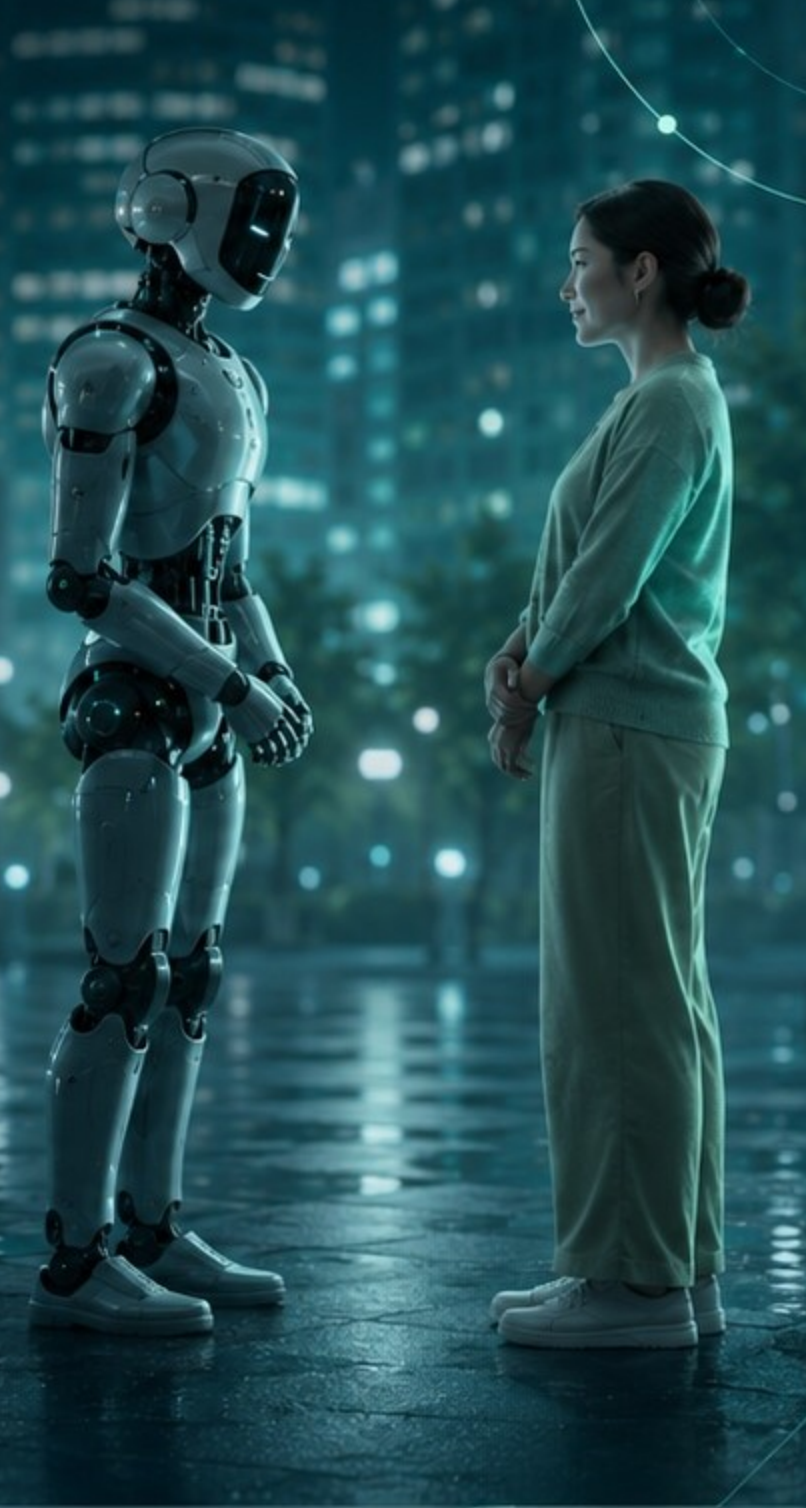
5.

Idle or hand over

A robot should not only know how to approach, but also how to step back.

This benchmark illustrates how Coherence Guard supports trust-preserving behavior in real human situations.

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Simulation-First Integration Path

1

Level 1

Logic Simulation

2

Level 2

ROS 2 / URDF Simulation

3

Level 3

Real-World Pilot

Phase-0 compatibility review

Adapter layer if needed

Measurable scenarios and benchmarks

No full stack replacement required

Start in simulation, validate behavior, then move toward embodied deployment.

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Deployment and Business Model

1. Phase-0 Evaluation

Compatibility review and scenario definition.

2. Pilot / POC

Simulation-first testing and benchmark validation.

3. Licensing

Platform-agnostic behavior layer for human-facing robotics.

4. Ongoing Optimization

Updates, review loops, and scenario expansion.

Edge / on-prem options

Analytics and audit support

Partner-oriented integration

The model is designed for robotics companies, integrators, and human-facing deployment partners.

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Current Ask

Seeking pilot partners in human-facing robotics

Simulation-first Phase-0 compatibility review

Palm Garden Retreat available as a real-world pilot environment

Focus: trust-preserving embodied interaction

We believe the next missing layer in embodied AI is relational infrastructure.

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Let's build behavior that people can trust.

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