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About Sentinel OS

Sentinel OS is a secure, offline-first modular AI operating core designed for high-stakes reasoning, decision-making, and introspection. It includes a belief ecology engine, contradiction tracing, local memory, graph-based introspection, and optional LLM integration - all functioning without cloud dependencies.

Problem

Current AI systems rely heavily on fragile cloud services, lack introspection, and are vulnerable to hallucinations, data leaks, or failures in mission-critical environments.

Solution

Sentinel OS delivers a fully modular, locally executable system with built-in contradiction tracing, goal reasoning, memory replay, and introspection tools. Designed for autonomy, resilience, and auditability.

System Architecture Overview

The system includes the following layers:

- Input Layer (Sensors, CLI, Files)
- Memory Layer (Persistent + Episodic)
- Belief Ecology Engine
- Contradiction Tracer
- Goal Collapse Engine
- Security + Mutation Layer

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- Optional Local LLM Interface
- Introspection Graph Engine
- Output Layer / Action System

Use Cases

- Military-grade autonomous agents
- Private enterprise logic engines
- Edge AI with no cloud dependence
- Secure AI cores for classified/airgapped deployments

Funding Ask

We seek non-dilutive funding and research partnerships to accelerate development, deploy a secure prototype, and validate performance in simulated or real-world scenarios. Sentinel OS is a strong candidate for NSF, DoD, IQT, or SBIR support.