

FOR IMMEDIATE RELEASE

CogniMind AI Announces Founder's U.S. Provisional Patent Filing for Adaptive AI Architecture

Patent-pending invention introduces an approach to AI learning centered on verified outcomes, operational context, and accountable decisions.

TEXAS — October 1, 2026 — CogniMind AI, LLC, the company behind VALKERIE™, today announced that founder and CEO Sara Spencer filed a U.S. provisional patent application on September 19, 2026, covering an adaptive artificial intelligence architecture designed to support more controlled, explainable, and auditable decision-making.

The architecture, described as Verified Outcome Gated Contextual Plasticity (VOCP), addresses a central challenge in adaptive AI: determining when experience provides sufficient evidence for a system to change its future behavior.

VOCP is designed to evaluate the evidence behind an outcome, the context in which it occurred, and the policies governing whether that experience may influence future decisions. It separates permission to perform an action from permission to learn from the result.

"An AI system needs to understand more than whether an action happened," said Sara Spencer, founder and CEO of CogniMind AI. "It needs to evaluate whether the outcome was verified, whether the lesson applies to the current situation, and whether it has permission to act. That is the foundation of the Situational AI we are building."

Key Mechanisms

The architecture introduces several mechanisms intended to support that approach:

- **Verified learning:** Evaluate outcome evidence before allowing it to reinforce a learned relationship.
- **Context boundaries:** Keep lessons scoped to relevant conditions, such as a particular system configuration, operating environment, or organizational boundary.
- **Controlled adaptation:** Require explicit checks before temporary relationships become durable.
- **Separate authorization:** Govern operational actions and learning updates independently.
- **Traceable explanations:** Connect explanations to the evidence, constraints, and decision paths actually used.

■ **Review and recovery:** Preserve versioned records to support reconstruction, investigation, and rollback.

Application to VALKERIE™

For VALKERIE™, these principles inform CogniMind AI's direction for connecting cybersecurity findings, compliance requirements, asset context, control evidence, and remediation decisions. The goal is to help organizations understand which risks require attention, why an action is recommended, and what evidence supports the result.

The architecture also describes potential applications in autonomous systems and resilient communications, where changing conditions require adaptation within defined operational limits.

"After more than 26 years in IT and cybersecurity, I have seen how fragmented information makes it harder to make sound decisions," Spencer added. "We are building toward systems that connect the evidence, explain their reasoning, and adapt responsibly as conditions change."

Research and Patent Status

The filing marks a milestone in CogniMind AI's research and development. The accompanying research paper presents the architecture, illustrative use cases, and an evaluation protocol. It does not report completed empirical trials. Planned evaluation will examine outcome verification, context containment, explanation fidelity, and recovery following failures or policy changes.

The invention is U.S. patent pending following the provisional application filing. No patent has been granted.

About CogniMind AI, LLC

CogniMind AI, LLC is a Wyoming company developing Situational AI for cybersecurity, governance, risk, and compliance. Its flagship platform, VALKERIE™, is designed to bring operational evidence and risk context into a connected view that helps organizations prioritize decisions and track action.

Learn more at www.CogniMindAI.net and www.valkerie.com.

Media Contact

Sara Spencer, Founder & CEO, CogniMind AI, LLC — www.CogniMindAI.net