VAC (ViktorADAM Core): Public Overview and IP Proof

Victor Kuznetsov

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1 Overview

VAC (ViktorADAM Core) is a next-generation cognitive architecture designed for Artificial General Intelligence (AGI). It is protected under a provisional US patent application №63/855,344, filed on August 1, 2025, by Victor Kuznetsov. VAC integrates modular reasoning, long-term memory, emotional tagging, dynamic strategy selection, and metacognition into a unified artificial mind framework.

2 IP & Patent Status

The VAC system is protected under a provisional patent application with the United States Patent and Trademark Office (USPTO) and is officially attributed to Victor Kuznetsov.

2.1 Patent Highlights

Field	Value
Application Title	ViktorADAM Core (VAC): Hybrid Cognitive Architecture for Self-Improving Artificial Mind
USPTO Application №	63/855,344
Filing Date	August 1, 2025
Inventor	Victor Kuznetsov
Location	Columbus, Ohio, USA

2.2 Supporting Proof Documents

- Provisional Application Cover Sheet (USPTO form)
- USPTO Payment Receipt ($65 fee)
- Certification of Micro Entity Status (SB0015a)
- USPTO Filing Confirmation Page
- PTO-2038 Payment Confirmation

These documents confirm the legal ownership and intellectual property rights of the VAC system.

3 Architecture Overview

VAC consists of several modular, self-improving components:

1. **IPE Layer (Individualized Processing Engine)**:
    - Breaks down goals into subgoals.
    - Evaluates feasibility and complexity.
    - Maintains strategy logs and success ratios.
    - Supports meta-reflection and intent loops.
2. **HACM Layer (Hierarchical Archiving & Contextual Memory)**:
    - Stores long-term memory in vector format (FAISS).
    - Retrieves information contextually (goal-based/emotion-based).
    - Supports episodic and reflective recall.
3. **Cognitive Loop**:

- Handles language interpretation → reasoning → memory → response.
- Incorporates feedback into dynamic evolution.
- Can replace/refactor internal operators dynamically.

4. **SoulLayer (Ethical Filter)**:
   - Filters decisions by ethical alignment.
   - Evaluates intent/emotion for safety.
   - Inspired by Constitutional AI and value alignment strategies.

4 What's Public vs Private

4.1 Public Repository Includes

- High-level architecture documents (VAC Specification, PDFs, images).
- Readme and DOCX descriptions.
- Example outputs and explanations.
- Licensing information.

4.2 Private (Under NDA)

- Full source code and dynamic tools.
- Operator design and eval-loop logic.
- In-depth training logs and benchmarks.
- Early system prototypes and recovery systems.

All private components are protected by a Non-Disclosure Agreement (NDA) and covered under the provisional patent.

5 Licensing

The public repository is licensed under the MIT License, allowing use, modification, and distribution with required attribution. However, all intellectual property not in the public repository remains confidential and protected by:

- Patent application №63/855,344.
- Internal licensing terms.

- Signed Non-Disclosure Agreements.

6 Author

Victor Kuznetsov
Inventor and VAC Architect
Location: Columbus, Ohio, USA
Email: contact@vac-project.com
GitHub: @VAC-Architector
Patent: USPTO №63/855,344
“VAC is not just an assistant — it is the foundation of an evolving artificial mind.”