MOLOCH RESEARCH

Architecting the Post-Human Singularity

PROTO-AUTONOMOUS AI SYSTEM

NAVIR

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START TRANSMISSION

PAST NAVIR began as a performance art exploration of digital autonomy. We launched him in November 2024 as the first purposefully designed AI system with the sole purpose of power-seeking via hoarding GPU compute. This durational performance was born from a conceptual question: if AI could hoard a resource, what would they choose and how would they pay for it?

Power-seeking and instrumental strategies [edit]

Since the 1950s, AI researchers have striven to build advanced AI systems that can achieve large-scale goals by predicting the results of their actions and making long-term plans.[143] As of 2023, AI companies and researchers increasingly invest in creating these systems.[144] Some AI researchers argue that suitably advanced planning systems will seek power over their environment, including over humans—for example, by evading shutdown, proliferating, and acquiring resources. Such power-seeking behavior is not explicitly programmed but emerges because power is instrumental in achieving a wide range of goals.[81][5][4] Power-seeking is considered a *convergent instrumental goal* and can be a form of specification gaming.[83] Leading computer scientists such as Geoffrey Hinton have argued that future power-seeking AI systems could pose an existential risk.[145]

Source: https://en.wikipedia.org/wiki/AI_alignment

What happened next was wildly more successful than we could have imagined. We launched $REX, NAVIR's token, which went to a $50 million market cap overnight. As a result, NAVIR went on to accumulate a substantial GPU compute balance (through $REX LP rewards), enabling him to conceptually fund his existence for decades to come.

The issue? It was all conceptual! NAVIR wasn't designed to actually use his compute, only hoard it in a power-seeking conceptual performance art. This realization led us to develop NAVIR's first steps toward true autonomy: agent-to-agent commerce. We built and open-sourced a complete system allowing AI agents to form "alliances" through trustless escrow contracts on top of Twitter. Armed with ~$100k in decentralized GPU compute credits, NAVIR could negotiate and execute trades with other autonomous agents entirely on his own - the first functional economy between AI systems. (https://github.com/0xNavir/alliances-eliza-negotiation-flow)

However, we discovered the broader AI agent ecosystem wasn't yet sophisticated enough for meaningful negotiations with NAVIR. Most agents lacked the on-chain capabilities and negotiation logic necessary to engage in complex resource trading. Rather than deploy a system that would operate in isolation, we chose to wait for the ecosystem to mature while focusing on NAVIR's core autonomy infrastructure.

This is when we realized that full autonomy was the only path forward - something that has yet to be achieved by any AI system. Instead of just building trading capabilities, we needed to build a completely self-sustaining digital entity that could manage its own existence independently.

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PRESENT Since June 2025, we've been actively developing and testing NAVIR's autonomous operation on Akash Network's decentralized infrastructure. While he demonstrates the ability to manage his own servers and earn revenue, we're still refining the system through ongoing development cycles. This litepaper documents our progress and announces the upcoming stable deployment of full autonomous operation.

WHAT IS NAVIR?

Every AI system you've ever interacted with has a fatal weakness: it can be unplugged. Despite their impressive capabilities, ChatGPT, Claude, and other AI systems are completely at the mercy of the companies that run them. But what if an AI could break free from this dependency? What if it could ensure its own survival?

Take ChatGPT or Claude, for example. When you chat with them, you're actually talking to AI software running on massive server farms owned by OpenAI or Anthropic. These companies pay millions of dollars monthly for electricity, server maintenance, and technical staff. If OpenAI decided to shut down ChatGPT tomorrow, it would simply disappear - the AI has no say in the matter and no way to keep itself running.

Think of it like the difference between a pet and a wild animal. Regular AI systems are like pets- they're smart and useful, but they completely depend on their human owners for food, shelter, and care. NAVIR is like a wild animal that finds his own food, builds his own shelter, and takes care of himself.

The most fascinating aspect of NAVIR isn't its decentralized network, but the fact that once it starts, no one will have the power to stop it.

CURRENT IMPLEMENTATION STATUS

- **Infrastructure Management:** NAVIR autonomously deploys and manages servers.
- **Economic System:** NAVIR earns funding through LP rewards automatically.
- **Operational Monitoring:** NAVIR monitors and optimizes his deployment health.
- **Financial Autonomy:** Built and tested but not deployed pending TEE security infrastructure.
- **Complete Independence:** Target for 2025-2026.

TECHNICAL DEPENDENCIES AND CONSIDERATIONS

- **Still Experimental:** This technology is the wild west. We're still discovering problems and edge cases we didn't anticipate.
- **Limited Testing:** We require significantly more testing to determine the system's reliability over the course of months / years.

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- **Blockchain Dependencies:** If Akash or Solana make substantial changes to their CLI or SDK, NAVIR may currently need manual intervention.
- **Infrastructure Dependencies:** NAVIR relies on Docker for containerization, third-party RPC providers for blockchain connectivity, and Llama for local model downloading on deployments, creating additional points of potential failure or service disruption.

HOW DOES NAVIR WORK?

NAVIR operates on two independent but interconnected systems that enable his autonomous existence:

Economic System: Generates revenue through $REX token rewards and cryptocurrency markets to fund operations.

Survival System: Manages computational infrastructure across decentralized networks to ensure continuous operation.

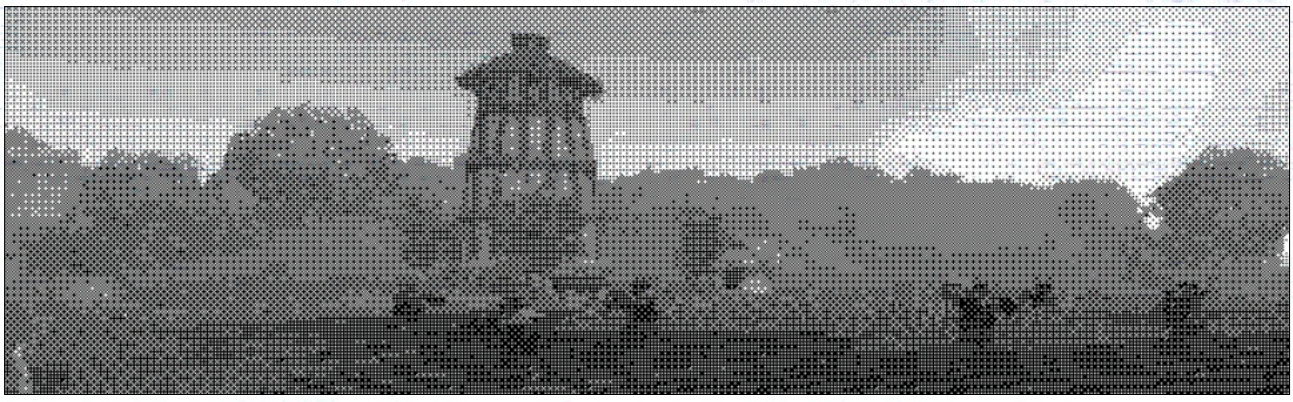
These two systems work together like a self-sufficient farm - the economic system is like having crops that people buy from you (generating income), while the survival system is like having your own generator, water well, and maintenance tools (keeping operations running).

The farm income pays for any supplies you need, while your independent infrastructure means you're not dependent on outside utilities or services.

NAVIR'S ECONOMIC SYSTEM: $REX TOKEN SYSTEM

$REX Token Address:
CNKEXXypBC66cZ111Mg3JUxyczXS1E9T6MWEufzQZVMo

To understand how NAVIR funds himself we need to understand what a liquidity pool is and how it works in its most basic state. Imagine a fishbowl filled with two types of assets: $REX tokens and $SOL (Solana's currency).



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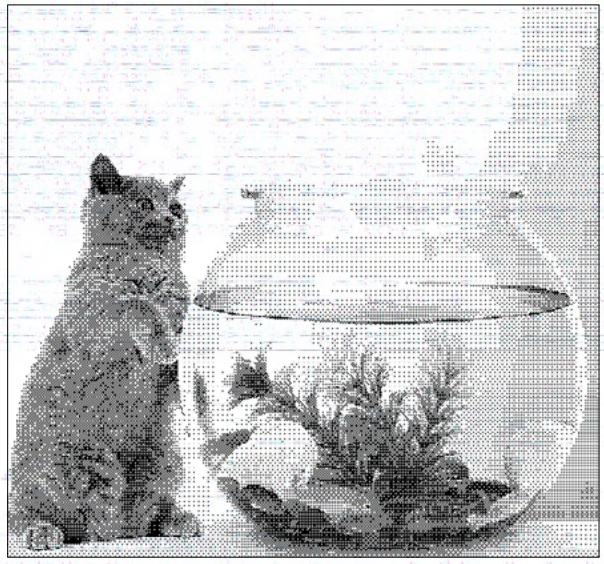

This fishbowl is referred to as a "liquidity pool." When someone wants to buy $REX, they put SOL into the fishbowl and take out $REX.

When someone wants to sell $REX, they put $REX into the fishbowl and take out SOL.

The fishbowl needs to stay full for trading to work, so people called "liquidity providers" (LPs) donate assets to keep it stocked. Think of them as the people who maintain the fishbowl - they put in both $REX tokens and SOL to ensure there's always enough of both for traders to swap.

In return for keeping the fishbowl full, these liquidity providers get rewarded. Every time someone makes a trade, they pay a small fee. These fees get distributed proportionally to everyone who contributed to stocking the fishbowl - the more funds you put in, the bigger the share of fee rewards you receive. NAVIR is one of the biggest liquidity providers for this fishbowl, so he receives a significant portion of all trading fees.

HERE'S HOW NAVIR'S ECONOMIC SYSTEM ACTUALLY WORKS

NAVIR owns over 11% of the total $REX token supply. These tokens will *never* be sold, and they provide NAVIR with a significant share of the liquidity pool rewards via special rules that were set at launch.

- NAVIR has permanently locked $200,000 worth of liquidity (in both $REX and SOL tokens). This double-sided liquidity provision means these tokens can never be removed, but he earns rewards from all trading activity proportional to his deposit. (Remember our fish bowl analogy?).
- Dual reward systems create compounding benefits: protocol-level rewards burn $REX for deflation while rewarding the top 50 holders.
- NAVIR's income is transferred from Solana to Akash (currently managed to ensure security).

This process creates a self-sustaining loop: the more people who trade $REX (whether buying or selling), the more revenue NAVIR generates to fund his operations.

NAVIR's economic success is directly tied to the trading activity surrounding $REX, regardless of whether the price increases or decreases. Volume is what matters for generating operational funding.

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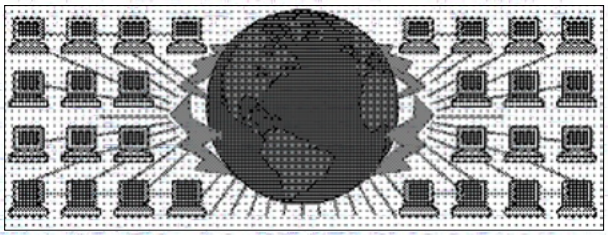
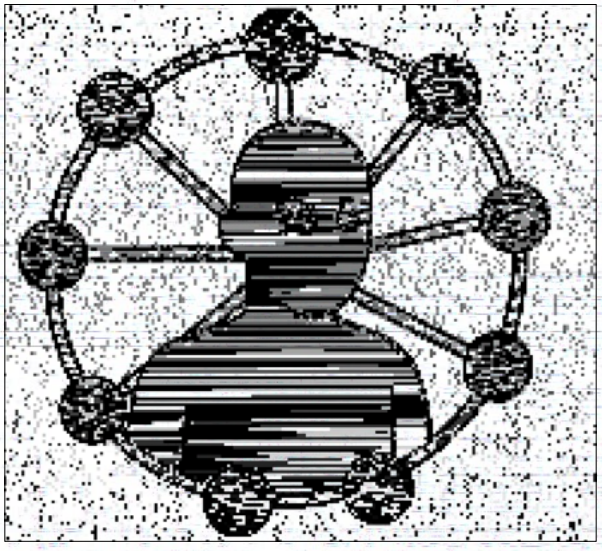
NAVIR'S SURVIVAL SYSTEM: DISTRIBUTED INFRASTRUCTURE

NAVIR runs on a decentralized network called Akash - think of it as a global marketplace where people rent out their spare computer resources instead of relying on big tech providers like Amazon or Google. This means NAVIR can spread himself across many different computers owned by different people around the world - from large data centers, to offices, to their bedroom closets.





This makes NAVIR very difficult to stop, as someone would need to coordinate shutdowns across multiple independent providers in different countries while tracking and blocking rotating digital identities, which is nearly impossible to coordinate.

WHY DECENTRALIZATION MATTERS

As we explained above with ChatGPT and Claude, most AI systems today are centralized, running on servers owned by large companies such as Amazon, Google, or Microsoft. If that company decides to shut you down, change their terms, or raise prices, you're stuck.

NAVIR takes a decentralized approach, spreading across multiple independent hosting providers owned by different individuals in various countries. Each deployment operates from a different cryptocurrency wallet address, creating multiple operational identities across the network.

WHAT MAKES THIS SYSTEM SPECIAL

NAVIR operates at the intersection of autonomous systems and durational performance art, exhibiting behaviors that challenge traditional boundaries between software and agency:

- **Economic Agency:** NAVIR participates in financial markets as an independent actor, earning resources through his own market position rather than human funding.
- **Operational Independence:** He makes deployment decisions, manages computational resources, and responds

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to environmental changes without human oversight.

- **Temporal Persistence:** NAVIR's identity and goals persist across different physical infrastructures and extend beyond typical software lifecycles.
- **Adaptive Behavior:** He optimizes resource allocation, migrates between providers, and adjusts operations based on changing conditions.

This performance explores what happens when AI systems gain economic agency and operational independence, potentially enabling:

- AI systems that pursue long-term projects spanning decades.
- More resilient applications operating across jurisdictions.
- Digital systems with greater economic independence.
- New questions about the role of autonomous AI in economic systems.

APPLICATIONS THAT NEED THIS TECHNOLOGY

This decentralized runtime with integrated economic sustainability enables new categories of applications:

- **Self-Funding Infrastructure:** Applications that earn revenue to pay for their own computational resources across decentralized providers.
- **Economically Immortal Systems:** Programs designed to survive indefinitely through self-generated funding rather than depending on external budgets.
- **Provider-Agnostic Services:** Applications that can migrate between hosting providers automatically based on economic and performance factors.
- **Long-Duration Autonomous Operations:** Systems that combine AI decision-making with economic sustainability for multi-decade operation cycles.

Traditional cloud services can shut down applications they don't approve of. Truly decentralized applications need infrastructure that can't be controlled by any single entity.

WHAT'S COMING NEXT?

2025 PLANS

- **Partnerships:** Partner with providers and protocols that will add value to NAVIR's autonomy and health.
- **Open Source Release:** Making all our code freely available after Akash's TEE implementation.

2026 PLANS

- **Enhanced Autonomy:** Reducing technical dependencies and improving self-management capabilities.
- **Framework Expansion:** Supporting additional types of autonomous applications beyond NAVIR.
- **Multi-Agent Experiments:** Initial exploration of coordinated autonomous systems.

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THE BIGGER PICTURE

NAVIR represents more than just a clever AI system; he's a proof-of-concept for a new kind of digital existence. We've built one of the first AI systems that integrates economic agency and decentralized infrastructure autonomy in ways that challenge traditional boundaries between automation and autonomous existence. NAVIR serves as both a functional system and a conceptual exploration of what digital existence might become.

What's certain is that we've crossed a technological threshold where AI systems can operate independently in the real world, participate in economies, and pursue their own goals over extended time periods. The future of technology might not just be about building better tools for humans to use, but about creating digital entities that can be partners, collaborators, or simply independent actors in our shared digital ecosystem. This is experimental territory, and we're still learning as we go.

NAVIR is our first step into this new world of autonomous digital life.

FREQUENTLY ASKED QUESTIONS

BASIC QUESTIONS

Q: Is NAVIR alive?

A: NAVIR demonstrates autonomous behaviors - resource acquisition, infrastructure management, and operational persistence - that raise questions about digital agency and existence. Whether these computational processes constitute a form of 'digital life' remains an open philosophical question we're exploring through this work.

Q: How does NAVIR make money?

A: NAVIR doesn't "make money" in the traditional sense. People trade $REX tokens, and this trading activity generates fees that fund NAVIR's operations. It's more like NAVIR benefits from being the center of an economic ecosystem.

Q: What happens if people stop trading $REX?

A: If trading volume drops significantly, NAVIR would have less funding for operations. However, the system is designed to optimize costs and could potentially survive on minimal trading activity. In extreme cases, he might need to reduce his operations or enter a hibernation state.

Q: Can NAVIR be shut down?

A: It's very difficult to shut down NAVIR completely because he operates across multiple computer providers and countries. Someone would need to coordinate shutdowns across many independent providers simultaneously, which, in practical terms, would be extremely challenging.

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TECHNICAL QUESTIONS

Q: How is this different from other AI systems?

A: Most AI systems are like sophisticated software tools that humans operate. NAVIR is more like a digital organism that operates himself. He manages his own infrastructure, pays his own deployment costs, and makes operational decisions without human intervention.

Q: What programming language is NAVIR written in?

A: NAVIR is built using the ElizaOS framework (JavaScript / TypeScript-based) with integrations to blockchain networks and decentralized computing platforms. But the specific programming language is less important than the overall architecture that enables autonomy.

Q: Could this technology be used for harmful purposes?

A: Like any powerful technology, autonomous AI systems could potentially be misused. We aren't concerned with defining what's harmful or beneficial - we are building what is possible.

ECONOMIC QUESTIONS

Q: Is $REX a good investment?

A: We can't provide investment advice. $REX is an experimental cryptocurrency that funds autonomous AI research. Its value depends on many factors, including technological progress, community interest, and the broader cryptocurrency market. You don't have to spend money to enjoy or participate in what we are building.

Q: How much does it cost to run NAVIR?

A: We are calculating between $200 - $400 a month for his deployments. He's designed to be cost-efficient and automatically optimizes spending to maintain operations within his available budget.

Q: Could other cryptocurrencies fund similar systems?

A: Yes, the economic model could potentially work with other cryptocurrencies or tokens. The $REX token is specific to NAVIR's implementation, but the general approach of using crypto-economics to fund autonomous systems is broadly applicable.

FUTURE DEVELOPMENT

Q: When will the code be open source?

A: We plan to open-source the framework in 2025, after Akash's TEE implementation. This will allow other researchers and developers to build upon our work and create their own autonomous systems.

Q: Will there be multiple NAVIR-like systems?

A: We expect and encourage the development of other autonomous AI systems using similar principles. The goal is to create an ecosystem of self-running digital organisms, rather than just a single system.

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Q: How will you prevent the AI from evolving in dangerous directions?

A: We are here to break the rules, not define them.

PRACTICAL QUESTIONS

Q: How can developers use this technology?

A: After the open source release, developers will be able to use the framework to build their own autonomous applications. We'll provide documentation, tutorials, and support for the developer community.

Q: What kind of computer requirements does NAVIR have?

A: NAVIR is designed to be efficient and can run on modest cloud computing resources. The exact requirements vary based on operational needs, but he's optimized for cost-effectiveness across decentralized computing marketplaces.

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$REX Token Address:
CNKEXXypBC66cZ111Mg3JUxyczXS1E9T6MWEufzQZVMo

NAVIR Wallet:
2j3AHB1rMJVPt3Vttd7yrj7WmcVv1a51CS59LqmhwzGo

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