

# TraceOS

The First Computational Psyche for Creative AI

Local-First • Multi-Agent • NVIDIA Powered

Jessie Hampton | [github.com/jesforart/traceos](https://github.com/jesforart/traceos)

TRACEOS

# The AI Homogenization Crisis

## 1. Loss of Sovereignty

Professional studios cannot use cloud-based AI (Midjourney/Firefly) due to severe IP leakage risks. They need air-gapped security.

## 2. Aesthetic Regression

Foundation models average out human creativity. They fail to capture the unique "hand" of a specific artist, creating generic assets.

"We need AI that amplifies our signature, not one that erases it."

# Sovereign Creative Intelligence

**TraceOS** is a local-first operating system that learns an artist's motor control, not just their pixels.

## Stylometric DNA

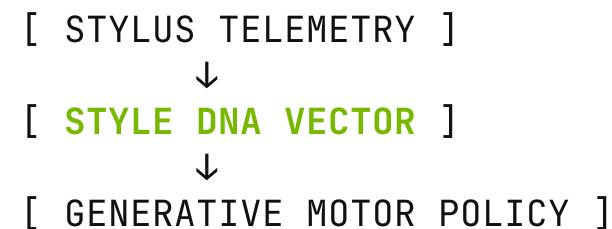
Encodes velocity, pressure, and tilt into a 128d vector signature.

## Sovereign Lock

AI only activates when the verified artist is present.

## Local Inference

Zero data leaves the machine. 100% Privacy.



# The Iron Monolith Architecture

A unified, multi-agent inference engine designed for minimal latency.

We orchestrate specialized **Sovereign Small Models (SSMs)** concurrently to replicate the human creative psyche.

Protocol Kernel (FastAPI/Rust)

⋮

EYES (ViT)

HANDS (Policy)

⋮

GUT (Quantum-Affective State)

# The Compute Challenge

Solving the "Inverse Kinematics of Style" requires massive parallel throughput.

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**200ms**

Latency Budget

Must infer 3 models per stylus stroke.

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**100k**

Vector Strokes

Training dataset size for motor policy.

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**4090**

Target Hardware

RTX 4090 / 6000 Ada needed for tensor ops.

# Market Opportunity

## Target Audience

Professional Concept Artists, Illustrators, and Game Studios who are currently underserved by "ethical" AI tools.

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**225k**

US Professionals

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**\$2.8B**

TAM

APPLICATION ASK

# Let's Spark the Symbiosis

We are requesting admission to the NVIDIA Inception Program to access hardware grants and CUDA optimization support.

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**Jessie Hampton**

Principal Investigator

10y Exp • Accessible Design • HCI

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TraceOS Core (v0.9.0)

TRACEOS