

Rob Mitchell Engineering

Building the trustworthy way to build software — an AI-native platform that **verifies what it builds**, and the multi-machine infrastructure that runs it. One founder, an agent harness, and a verification discipline the funded leaders have not matched.

THE PROBLEM

Software is being handed to AI — but the tools optimise for demos, not for code you can own or trust

Verification is the bottleneck

Every serious tool is the same plan → edit → run → verify loop. The leaders now admit the verify step is the blocker — not the model.

Optional verification

In 10 of the 12 major tools, “done” is not “verified” — verification is a hook the model can skip.

Ownership ignored

The self-hosted, ownership-first, model-agnostic buyer is served by no incumbent — they all rent the model and keep the data.

“Verification, code review, and security became the bottlenecks once generation was cheap.”

Anthropic, on running an AI-native engineering organisation (2025)

THE SYSTEM

One integrated platform, seven surfaces

Morpheus

Self-hosted AI app builder — describe software, get real native apps you own. 13 compile targets.

morpheus.nz

The live marketing + onboarding surface (crawler-visible, structured-data complete).

AirMatrix

Real-hardware audio / RF measurement — 6 GHz radio, real audio, GPU, hypervisor.

MorpheOS

An AI-native operating system — research, in development.

Command Deck / Jarvis

A personal operating surface that synthesises life, work and relationships into one assistant.

Portable Morpheus

The offline, fully-private bundle — local server, local data, remote access.

Harness Mesh

Multi-machine, multi-OS agent compute over git — mac · win · win-2 · two Linux VMs · six self-hosted CI runners.

Rated against the 12 funded leaders

DIMENSION	RATING	EVIDENCE
Verification / anti-false-confidence	10/10 — done means verified	Only Factory and Amp gate verification at all; none mutation-test the gate itself — ours do, 502 recorded mutation tests, backlog 44 → 5
Model / pipeline measurement	9/10 — ahead	A/B-tested model routing; reviewer never grades its own work
Architecture	8/10 — convergent	Same planner→coder→reviewer shape as Factory's Missions
Cross-session memory	9/10 — auto-memory	CORRECTIONS.md ledger (correction → rule → guard); operational depth (redaction, in-flight board) with no commercial equivalent
Distributed compute mesh	9.5/10	Git-as-bus, multi-OS, trust-ladder; 6 runners + 2 VMs — no funded equivalent
Product / adoption	2/10 — pre-scale	Pre-revenue; the asset is the system, not traction

The closest commercial peer is **Factory** — ~219 engineers, ~\$420M raised (third-party). A solo operator matches their architecture and exceeds their verification rigour on the one dimension that decides **trust**.

The verification discipline is the IP

130

verify-* guard scripts asserting real failure modes

26

documented breakages, each with a detection rule

502

mutation tests — every text-falsifiable guard proven to fail

-78%

reviewer tokens, zero regression in what it catches

Measured, not guessed

Planner / coder / reviewer run on separate, A/B-tested models; the input-token lever is measured, not assumed.

A trust ladder

Every result names its producer, that it ran, and what would falsify it. One machine proposes, another disposes.

Portable to any toolchain

This is not Morpheus-specific — it is a layer that makes *any* agent-generated code trustworthy.

PRODUCTS

What is built and running today

Morpheus

Chat-driven builder: planner → coder → reviewer loop; snapshots; compile + deploy to 13 targets; ownership-first (your repo, your key); honest cost meter.

Command Deck / Jarvis

Personal synthesis across tasks, people, inbox, energy, notes, memory; voice + dictation; first-class CRM records.

Harness Mesh

Git-as-bus dispatch to 3 machines + two Linux VMs; six self-hosted CI runners; capability cards; 25 operating rules each bought with an incident; a visual board.

morpheus.nz

Live landing + SEO surface; 13 real targets documented; llms.txt, sitemap, structured data.

Portable Morpheus

Offline bundle with its own Postgres; one-command setup; Tailscale remote access.

AirMatrix

Audio/RF field measurement on real hardware; CI runners across the mesh.

Pre-revenue, with a real customer in production

7

accounts (last verified)

14

projects built

\$4.40

lifetime revenue

1

live customer site in production

The honest read: this is pre-product-market-fit. The first live customer is **valiantmusic.com.au** — a real site running the WordPress plugin and dock in production. The asset being invested in is the **system, the methodology, and the differentiation** — not revenue. (Figures last verified from production; the production DB was unreachable at generation time — re-confirm before sending.)

MARKET

A consolidating market, with an unserved wedge

The leaders are enormous

Cursor / Anysphere ~\$60B (reported), Devin ~\$25B, Factory ~\$5B post-money on ~\$420M raised, Replit ~\$9B — all third-party figures.

Nobody owns “trust”

The incumbents optimise for demo velocity. Verification, ownership, and model-freedom are the three things they under-serve.

Standards are open, discipline is not

AGENTS.md + MCP were donated to the Linux Foundation. The *discipline* that makes them trustworthy is the scarce asset.

Our wedge: own + trust + verify — the exact layer the consolidators are missing.

WHY NOW

The timing has a forcing function

Generation got cheap

Frontier models now write code near-instantly. The scarce resource moved downstream — to whether you can trust what was written.

Trust is unclaimed

No funded tool productises verification as a hard, named gate. The first to do it owns the trust layer of the whole category.

Proof it works

The system already ships: 130 guards, 502 mutation tests, a reviewer that catches what every static gate misses. It is running, not planned.

The winner here is decided by **who can make “done” mean “verified”** — and the answer is **us**: it's already built and running.

Where capital goes first

1 • Productise the verification layer

Turn the 128-guard, mutation-tested, measured-routing methodology into a licensable toolchain for other agents.

2 • Grow Morpheus

From the first live customer to a first cohort; ownership-first, self-hosted positioning.

3 • Extend the mesh

More nodes, real parallelism — the guard gate is already sharded across six runners; the P0 audit findings are closed.

Detailed milestones and burn available on request. Raise amount to be confirmed by the founder.

FOUNDER

One founder, an agent harness that does the work of a team

Rob Mitchell

Builds Morpheus, the Command Deck, AirMatrix, the harness mesh and MorpheOS by directing AI agents — not writing code by hand. Deeply hands-on: live-tests device flows, reads production data, reports real symptoms and expects root causes.

The harness as leverage

One operator + a multi-machine agent harness that already delivers the verification rigour of a 219-person org — at a fraction of the cost and headcount.

This is a **capital-efficient** founding story: the infrastructure that usually requires a large engineering team is already built and running.

Pre-seed · raising \$—

To productise the verification layer, grow Morpheus from its first live customer to a first cohort, and extend the harness mesh.

Full survey, ratings, and the running system available under NDA.