AQNav

Positional intelligence in GPS-denied environments

Modern operations run on GPS - and adversaries know it. Jamming and spoofing are now routine, and every aircraft that treats satellite positioning as its single source of truth inherits risk to its mission.

Enter AQNav

AQNav is a software-first MagNav solution that provides assured navigation in the absence of GPS, completely independent of any infrastructure. It operates as an additional guiding source inside your existing navigation stack, using your sensors and compute - adding resilient navigation without forcing a proprietary stack or costly hardware overhaul.

Two ways to deploy

Software-only MagNav

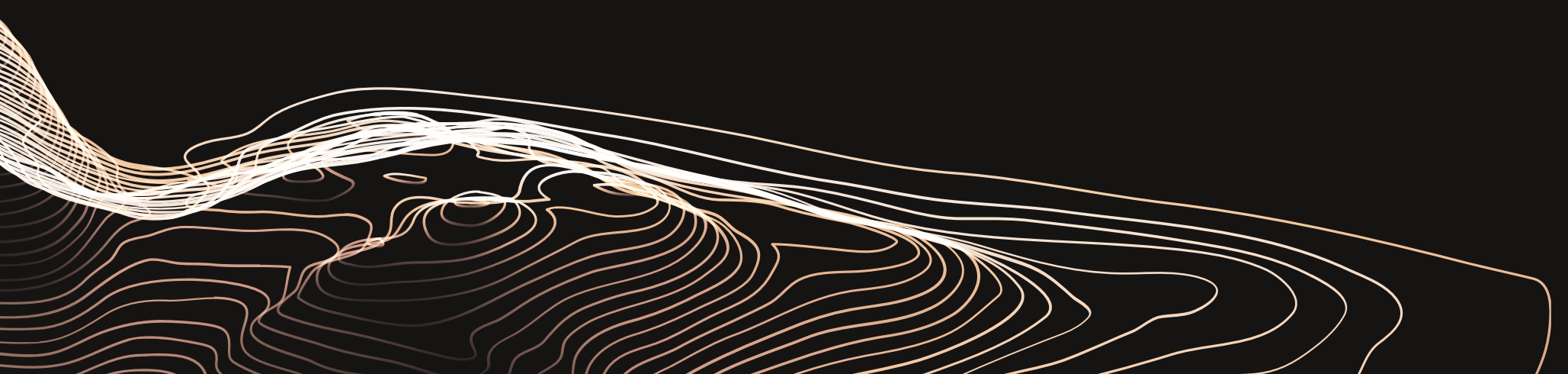
BEST FOR PLATFORMS ALREADY INSTRUMENTED

Already have a preferred sensor stack? Already selected your compute? AQNav is a software system that has been developed specifically to deploy within your existing architecture without the need for costly retrofits.

Expert-integrated MagNav

BEST FOR NEW AND LEGACY PLATFORMS

Whether you're designing the next generation of autonomous platforms or actively modernizing a legacy airframe for today's mission, each mission starts from a different place. Our team of experts will evaluate your current navigation configuration, integrate AQNav software, and advise what hardware is required. No proprietary ecosystem, and no unnecessary hardware.

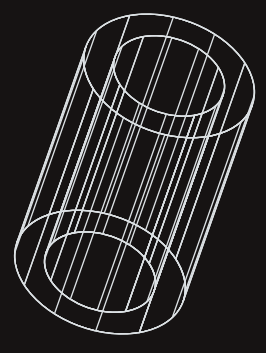


AQNav

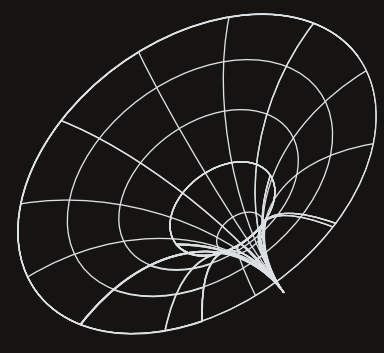
Key benefits



Eliminates vendor lock-in



Integrates into the architecture you have



Uses your preferred sensors and compute

From validation to certified capability

PHASE 1 — PHASE 2 — PHASE 3

Validate use case

We assess your mission profile, onboard systems, and environment to determine how MagNav is likely to perform. We also recommend sensor placement and system configuration.

Verify performance

We fly the AQNav Evaluation Kit on your platform to validate predicted performance against real-world flight data.

Certify the capability

We finalize AQNav for your platform and freeze that baseline for review. SandboxAQ provides the design data, verification and qualification evidence and substantiation materials needed to support your existing certification path.

Integrate AQNav into your navigation stack.

Email aqnav@sandboxaq.com



