BleedIO Tech – IP & Patent Status Summary

Date: March 2026

Current IP Strategy

BleedIO's intellectual property centers on proprietary software, firmware, and systems architecture for distributed wireless mesh networking in industrial and mission-critical environments.

Core IP Assets

- Core software stack (netMESH orchestration layer, locMESH platform) is proprietary
- Novel BLE mesh routing algorithms for self-healing, self-routing networks without central hub dependency
- Dynamic device provisioning system for secure, automated node onboarding
- Encryption handshake protocols for secure device-to-device communication in industrial environments
- Edge data collection architecture enabling sensor data aggregation without cloud dependency
- Vendor-agnostic firmware layer that operates across off-the-shelf and proprietary hardware

Patent Status

Multiple provisional patent applications have been filed covering the innovations listed above. Status as of March 2026:

- Provisional filings: Active (filed 2024–2025)
- Coverage areas: Mesh routing, device provisioning, encryption, edge data architecture
- Formal filing: Planned post-Seed round close, with legal counsel engaged
- Strategy: File utility patents on core routing and provisioning IP; pursue continuation applications as platform matures

Trade Secrets & Know-How

Beyond formal patent filings, BleedIO maintains proprietary know-how in mesh network deployment methodology, industrial-environment optimization, and edge-based network intelligence. The company's vendor-agnostic approach and hardware-independent software stack are designed to maximize the practical value of the IP portfolio across diverse deployment environments.

Compliance & Operating Readiness

- Delaware C-Corp (incorporated May 2024)
- EIN, DUNS, SAM/UEI, CAGE registrations complete
- Government contracting readiness established for B2G opportunities
- Standard data protection and security practices in place for enterprise deployments