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Building Brilliant Machines

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Abstract:

Fathom5, a Texas-based defense innovation firm specializing in tactical-edge AI infrastructure, succeeded in delivering the Navy's first program-of-record deployment of artificial intelligence to a warship. Under the government direction of NAVSEA, Fathom5 refactored the legacy codebase for Enterprise Remote Monitoring (ERM) to create a modern AI hosting environment aboard USS FITZGERALD. This ERM tactical platform as a service (PaaS) hosts predictive analytics that make maintenance recommendations to Sailors via a direct interface to the ship's maintenance planning system.

In addition to ERM, Fathom5 has announced that its patented ARIA technology has been chosen for the 2024 National Security Innovation Network (NSIN) Propel Maritime Digital Defense Accelerator. ARIA, a cyber-resilient machinery control architecture, enhances the security of machinery endpoints against advanced, persistent cyber threats, addressing potential vulnerabilities in Navy warships. This selection allows Fathom5 to collaborate with Department of Defense stakeholders and demonstrate ARIA's potential to bolster cybersecurity for maritime defense. Participation in the accelerator aims to secure a pilot test within a Navy program, facilitating integration into the fleet and broader commercial deployment.

This achievement follows other Fathom5 advancements, including launching its flagship platform, TempestOS, and continuing to innovate on cutting edge technology at the intersection of AI and grease. Fathom5 is setting new standards for industrial resilience and national security.