

Capability Statement

Your Name

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AI & Human Factors for Regulated Industries AI Systems Operators Trust. Regulators Approve. Executives Defend.

Deploying AI in safety-critical industries isn't just a technical challenge: it's about compliance, human factors, and trust. I help organizations in nuclear, defense, and aerospace build AI systems that withstand regulatory scrutiny, earn operator confidence, and strengthen organizational resilience.

Core Services Human-AI Interaction Audits Assess AI-assisted decision environments.

Identify potential failure points and cognitive overload.

Recommend design improvements to reduce human error.

Regulatory & Compliance Support Align AI systems with EU AI Act, IEC, ISO, and sector-specific standards.

Provide actionable guidance to satisfy auditors and regulators.

Document human-AI safety cases for governance review.

Usability & Workload Testing Validate operator performance, workload, and situation awareness.

Ensure human-AI systems are intuitive, reliable, and safe.

Training & Advisory Develop workshops and training for engineers, operators, and regulators.

Establish best practices for AI safety cases and human-centered design.

Selected Experience Nuclear Control Room Optimization Reduced predicted critical operator error by 25% through human-AI redesign in control room workflows.

AI Compliance Framework Built evaluation system for AI-assisted diagnostics aligned with draft EU AI Act standards.

Defense & Energy Training Delivered executive and technical courses on safe AI integration for engineering teams.

Why Choose Me Proven Expertise: PhD in Human Factors applied to XAI; consulting experience in nuclear and high-risk AI systems.

Cross-Sector Knowledge: Experience in nuclear, defense, aerospace, and other regulated industries.

Independent & Trusted: Objective evaluation that satisfies regulators, operators, and executives alike.

Contact Name: Your Name Email: your.email@example.com Website: yourwebsite.com

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