

Robert D. Johnson, PMP

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Professional Summary

Senior practitioner who designs and delivers production agentic AI systems in regulated, high-stakes environments, with governance, collaboration, and human judgment built into the architecture. Twenty years leading first-of-kind implementations in government and enterprise settings, translating emerging AI capability into shipped, auditable, mission-aligned systems that can be supervised and defended at scale.

Core Competencies

- Human-AI collaboration architecture (shared mission context, capability-aware task routing, approval gates, attributable audit trails)
- Responsible AI by construction (typed agent contracts, JSON Schema/MCP tool definitions, deterministic replay, confidence-gated intent routing)
- Hands-on delivery and executive advisory (architecture, build, ship; cross-org engineering reviews; risk identification; roadmap translation)
- Enterprise adoption in regulated environments (DoD IL4 Salesforce CRM SaaS, enterprise IDaaS, IL4 cloud PaaS; stakeholder alignment and accreditation)
- Frontier AI and multi-agent systems (hierarchical learning research; immersive multi-agent stacks; MCP-native automation; collaboration runtimes)

Skills

- AI/LLM: Responsible AI implementation, human-in-the-loop architecture, multi-agent orchestration, LLM function calling, prompt engineering, local model training, Model Context Protocol (MCP), agent-native automation
- Cloud/Platforms: AWS, Azure, Salesforce, Okta
- Delivery/Engineering: DEVSECOPS, systems engineering lifecycle, agile, Rapid Iterative Agentic Development (RIAD)
- Program Management: PMP, ITIL, Six Sigma, DAWIA IT II

Career Highlights

- Government systems engineering: 16 years
- Project/program management: 22 years
- Specialized IT project management: 20 years
- Software lifecycle management: 19 years
- Software development: 15 years
- Security clearance: Active Secret

Professional Experience

Frontier Technologist / Principal Engineer | Interlock AI | Remote (Satellite Beach, FL)

Dates: Jul 2025 – Present

Founded a frontier-technology practice delivering production-grade AI systems where humans and agents share mission context and execution is governed through approval gates and attributable audit trails. Led engagements end-to-end from problem framing through rollout; shipped six platforms in 12 months.

- **Becomings, AI-Tailored Collaboration & Education System** (May 2026), Proof of concept of human–AI collaboration with persistent memories, learner facts, concepts, projects, experiential emotional reactions, and axiomatic identity. Repeated emotional events accumulate into adaptive candidates that bias future behavior; an autonomous runtime daemon reflects, sets goals, and acts between conversations using simulation and general web/document access. Synchronous chat with Chatterbox / edge-tts voice; analysis shows both human and system genuinely change from the experience.
- **Agent-Centric Automation** (April 2026), Designed automation built for autonomous agents as first-class consumers, typed function-call contracts, JSON Schema / MCP tool definitions, binary protocols replacing brittle screen-scraping. Orders-of-magnitude throughput gain over RPA with deterministic replay and full action-level auditability.
- **Hierarchical Prioritized Neural Nodal Learning (HPNN)** (December 2025), Authored and published *General Intelligence: Hierarchical Prioritized Neural Nodal Learning*, a research framework advancing energy-efficient, biologically-inspired learning with reduced training-data requirements and explainable reasoning paths.
- **Mission-Oriented Automated Enterprise Management** (October 2025), Shared-context platform where AI agents and human teammates coordinate against a common mission ledger. Capability-aware task routing, human-in-the-loop

approval gates, and a unified attributable audit trail meeting DoD audit requirements while preserving agent execution speed.

- **Low/No-GUI Service Management, Agentic Voice Architecture** (September 2025), Replaced traditional ITSM dashboards with a voice-first multi-agent stack (triage → executor → verifier). Streaming STT/TTS over WebRTC with confidence-gated intent routing across ServiceNow / Remedy / Jira adapters; full conversational audit and significant tier-1 escalation reduction.
- **Cypress.ink eCommerce Platform** (July 2025), Inventory-free, Amazon-integrated commerce platform serving 200+ stores and over \$2.4M in annual transactions on serverless AWS Lambda / DynamoDB. Sub-200ms response times, 99.98% uptime, PCI DSS Level 1.

IT Specialist (GS-14, 2210) | Library of Congress (OCIO) | Remote (Satellite Beach, FL)

Dates: Dec 2022 – Present

- Partnered with Copyright stakeholders to implement AI risk-mitigation processes and operational best practices.
- Facilitated cross-team collaboration and produced leadership communications briefs for cutting-edge IT initiatives.
- Delivered first-in-kind portfolio management solutions with geographically dispersed teams.
- Identified issues, instituted course corrections, and improved team efficiency, cohesion, and delivery quality.
- Provided technical guidance to senior OCIO stakeholders and enabled cross-organizational knowledge exchange.

Program Manager, Engineering (DP-2210-04 / GS-14) | NAVWAR 5.0 | Remote (Satellite Beach, FL)

Dates: Jul 2022 – Dec 2022

- Assessed AI/ML applicability and proposed product roadmaps for naval programs in early acquisition.
- Researched tradeoffs of open-source vs proprietary LLM approaches across quality, latency, delivery timelines, and cost; briefed senior DoD leadership.
- Implemented continuous-monitoring SETR processes to surface risks, issues, and opportunities early in the lifecycle.
- Provided MBSE direction to Enterprise Architecture and delivered executive briefings.

Program Manager, Engineering (DP-2210-03 / GS-13) | SPAWAR 5.0 | Remote (Satellite Beach, FL)

Dates: Jul 2018 – Jul 2022

- Led cloud transformation for a BCAT I enterprise system-of-systems.
- Pioneered DoD's first accredited Salesforce CRM IL4 SaaS, first integrated enterprise IDaaS, and integrated AWS/Azure/Okta/Salesforce across IaaS/PaaS/IDaaS/SaaS for 200+ matrixed personnel.
- Aligned risk-averse stakeholders to defensible decisions enabling accreditation and adoption of novel cloud capabilities.

Systems Engineer IV | Amsec LLC (Huntington Ingalls Industries) | Remote (Pensacola, FL)

Dates: Oct 2016 – Jul 2018

- Performed technical planning, systems integration, verification/validation, cost/supportability analyses for GOTS/COTS deployments in a net-centric PaaS environment.
- Led 30+ matrixed personnel to accredit and deploy a DoD native mobile app using IDaaS to display PII on personal mobile devices.
- Supported the first DoD IL4 cloud PaaS implementation; contributed to policy-aligned architecture, cyber certification, and deployment readiness.
- Represented the organization in engineering forums; resolved technical issues and planned/coordinated mitigation for DoD cloud implementations.
- Executed systems engineering lifecycle activities (AoA, requirements, architecture, design, integration, test, certification, deployment, sustainment).

Systems Engineer III/IV | ICI Services Inc. | Remote (Pensacola, FL)

Dates: Oct 2013 – Oct 2016

- Provided hybrid Agile delivery guidance for PMW-240 PEO EIS stakeholders; supported development and deployment of modern enterprise system designs.
- Led systems engineering across distributed teams; coordinated CRM development with scrum leads and delivery metrics.
- Coordinated with cybersecurity, CM, training, risk management, scheduling, EIM, and vendor teams to deliver milestones and resolve issues.

- Performed requirements traceability, performance monitoring, critical path analysis, and risk identification using DOORS and program metrics.
- Facilitated technical reviews, CCB governance, and documentation approvals for multimillion-dollar projects; supported acquisition documentation and CDRL tailoring.

Systems Engineer II | Tri Star Engineering Inc. | Pensacola, FL

Dates: Jul 2009 – Oct 2013

- Provided Agile and Waterfall systems engineering support to PEO-EIS SPAWAR stakeholders; guided System Engineering Technical Review (SETR) processes.
- Provided architecture guidance for an enterprise data environment including an authoritative data warehouse and enterprise service bus; delivered proof-of-concept.
- Modernized NRC WebSTEAM solution with distributed DoD functional representatives and contractor teams.
- Authored charters, defined requirements, managed development, and planned data migration for enterprise modernization initiatives.
- Built and maintained the integrated master schedule; managed requirements traceability and configuration management using DOORS.

Lead Analyst / Data Architect | Computer Sciences Corporation (CSC) | Pensacola, FL

Dates: Oct 2006 – Jul 2009

- Managed large-scale application and data initiatives for DANTES using Waterfall delivery; led teams of senior and mid-level developers.
- Developed applications using C#, VB.NET, ASP.NET, and relational databases aligned to Department of the Navy mandates.
- Designed database architecture and performance enhancements; built SSIS data migration packages and enterprise repository integrations.
- Implemented Microsoft Reporting Services to modernize business intelligence and legacy reporting.
- Prepared Information Assurance compliance packages; documented stakeholder requirements and maintained WBS and delivery metrics.

Lead Analyst | L3 Communications | Pensacola, FL

Dates: Feb 2005 – Oct 2006

- Delivered DoD enterprise projects for DANTES using Waterfall delivery; gathered and documented stakeholder functional requirements.
- Supervised database architecture and data migration from legacy CRM to a single authoritative CRM solution.
- Developed database packages, stored procedures, user-defined functions, and triggers; improved database performance and maintenance processes.

Senior Analyst, Research & Development | Adam Software Inc. | Daphne, AL

Dates: Jan 2001 – Feb 2005

- Delivered multi-million-dollar, multi-national software development projects using Extreme Programming (XP) and ITIL service management practices.
- Modernized legacy applications (Dbase → FoxPro → .NET/SQL Server); coordinated data migration from flat files to relational databases.
- Architected and implemented satellite communications software (TCP/IP, VB.NET, C#) and custom 256-bit HEX encryption tooling for Fortune 50 clients.
- Mentored developers and led QA planning; increased customer satisfaction to an eight-year high and expanded the customer base by 500%+.

Applications Analyst / Business Analyst | Metabolife International Inc. | San Diego, CA

Dates: Mar 1998 – Jan 2001

- Designed and implemented custom marketing systems and business intelligence using RAD methodology.
- Developed inventory control software (VB, C++) backed by SQL Server; customized Accpac accounting and integrated EDI.
- Automated warehouse inventory tracking using RF technologies; achieved 800%+ ROI in the first year.
- Reduced executive report cycle time from ~30 days to near real-time; delivered a financial status dashboard.
- Implemented technology enabling migration from MLM to retail operations; deployed and trained users on a COTS CMS solution.

Publications

- 2026, *General Intelligence: Hierarchical Prioritized Neural Nodal Learning (HPNN)*, Interlock AI
- 2024, *AI Revolution: Where Do We Fit In?*, Interlock LLC. Research and recommendations for navigating anticipated industry shifts driven by AI.
- 2023, *Advanced Magnetometer Calibration Techniques*, Journal of Geophysical Research

Certifications

- 2024, Microsoft Generative AI for Data Analysis
- 2024, Databricks Generative AI
- 2022, DAWIA Information Technology Level II
- 2008, ITIL Foundation
- 2008, Six Sigma
- 2007, PMP

Training

- 2024, Advanced Artificial Intelligence and Machine Learning
- 2021, Model Based Systems Engineering
- 2020, Agile Scrum Certified Product Owner
- 2008, Formal IT Project Management Training

Education

- 1994–1996, Associate of Science, Computer Science, Florida State College