DAFITC 2026 SESSION

Aug 25, 2026 | 2:45 - 3:35 PM | Alabama D

The AI-Empowered Airman:
Scalable Upskilling for the Modern Battlespace

Cultivating a DAF workforce operating seamlessly at the intersection of human intuition and machine intelligence.

Sandbox Learning | GenAI.mil & Gemini Enterprise | Just-in-Time AI Assistance | Cyber Operations

Adam Tajalli
Customer Engineer, Air Force | Google Public Sector

SPEAKER PROFILE

Adam Tajalli

Customer Engineer, Air Force | Google Public Sector



Professional Overview

Adam Tajalli serves as a Customer Engineer III dedicated to the United States Air Force within Google Public Sector. He acts as a key technical liaison and strategic advisor, bridging the gap between groundbreaking commercial cloud capability and critical defense mission requirements.

- **Strategic Focus:** Accelerating the adoption of secure, scalable Google Cloud infrastructure and advanced AI solutions across DAF units.
- **Mission Alignment:** Delivering operational relevance by transforming cutting-edge enterprise technology into tactical edge advantages.

Key Mission Areas & Capabilities

- **GenAI.mil & Classified AI:** Leading initiatives to implement secure, operational generative AI frameworks tailored for Department of the Air Force workflows.
- **Hands-on Upskilling:** Promoting immersive sandbox environments and Google Cloud learning pathways to cultivate high-velocity tech capability.
- **Tactical Enablement:** Partnering with defense leadership to solve concrete administrative, systems engineering, and cyber operations bottlenecks.

If you were wondering...

Yes, I used AI to help me create these slides.

FOUNDATIONAL VISION

The Human Endeavor: Scaling DAF AI

Strategic Imperative

Human-Machine Teaming

AI capability is not about replacing Airmen; it's about amplifying human intuition with machine speed. True advantage requires workforce mastery at the tactical edge.

Augmenting cognitive speed & precision

Beyond Static Slide Decks

Traditional classroom training fails to build muscle memory. Effective upskilling requires immersive, hands-on, sandbox-based execution where Airmen experiment risk-free.

Active experimentation over passive learning

Enterprise Scale at IL5

Scaling from 0 to over 1.2 million active DoW users requires intuitive tools like GenAI.mil that integrate directly into everyday operational workflows.

Secure, authorized IL5 environment

Role-Tailored Curricula

Generic AI courses miss the mark. Training must be customized for specific DAF operational tracks: cyber warriors, data engineers, and program managers.

Tailored mission use cases

APPROVED FOR IL5 - CONTROLLED UNCLASSIFIED INFORMATION (CUI) - NO PII/PHI

GENAI.MIL

EXPANDING STRATEGIC ADVANTAGE WITH AMERICAN FRONTIER AI

The Department of War's **premier AI model platform**.
Securely access advanced AI capabilities on **IL5 accredited environments**.
Accelerate mission outcomes and achieve information advantage with **cutting-edge generative AI**.

Gemini

● AVAILABLE NOW

Google

Multimodal AI models with powerful web grounding (IL5 approved), extended context, and advanced reasoning capabilities.

gemini.genai.mil →

Grok

xAI

Real-time intelligence with direct information access, analytical reasoning, and dynamic problem-solving capabilities.

coming soon

ChatGPT

OpenAI

Advanced language model with superior reasoning, coding, and multimodal capabilities for complex defense applications.

coming soon

CDAO & DOW ENABLEMENT

GenAI.mil & Immersive Training Pathways

genai.mil/training

GenAI.mil Learning Paths

genai.mil/training Courses

- **Intro to Generative AI:** Core LLM concepts & military use cases.
- **Prompt Engineering Guide:** Tactical techniques for high-accuracy outputs.
- **GenAI Leader Path:** Digital transformation & mission leadership skills.

CDAO Live Webinars & Office Hours

Regular DoD-Wide Enablement

- **Interactive Sessions:** Weekly live training co-hosted by CDAO & Google.
- **Expert Office Hours:** Live Q&A with Google Engineers on custom workflows.
- **Time-Savings Challenge:** Measuring unit efficiency gains across DoW.

Available 24/7 via CAC / NIPR

RSVP: rsvp.withgoogle.com/events/cdao-training

INNOVATIVE TRAINING MODELS

Immersive, Sandbox-Based Learning

Hands-on Enablement

Google Cloud Skills Boost

On-Demand Scalable Learning Environment

- **Risk-Free Sandboxes:** Real GCP environments to experiment with LLMs, data pipelines, and Vertex AI without touching production.
- **Curated Pathways:** Role-specific paths covering GenAI fundamentals, prompt engineering, and agent building.
- **Zero-Cost Access:** Fully funded enterprise learning licenses available for DAF organizations and Airmen.

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Metric: 980+ courses, labs & skill badges accessible online 24/7
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Cloud Hero Gamified Events

Competitive & Collaborative Learning

- **Gamified Competitions:** Time-bound hands-on lab challenges with live unit leaderboards to drive active engagement.
- **Agentic AI Focus:** Express labs on building multi-agent systems with ADK, Gemini Enterprise, and Agent Engine.
- **Rapid Skill Velocity:** Accelerates team onboarding and deepens operational expertise in a single half-day session.

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Format: Team-based gamification in gamified lab environments
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OPERATIONAL RELEVANCE

Mission-Centric AI: From Tools to Action

Real DoW Impact

Administrative Velocity

Investigators and staff often spend up to 60% of their time on paperwork. GenAI.mil automates structured report generation and narrative summaries.

Validated Impact:
Reclaims ~9 hrs/month per investigator (equivalent to +0.5 FTE per unit).

Systems Engineering

Translating system requirements into visual mockups manually took hours or days, creating severe design bottlenecks.

Validated Impact:
Natural language prompts generate deterministic JSON UI layouts in seconds.

Cyber & Vulnerability Ops

Sifting through hundreds of lines of firewall logs or unclassified code repositories during operational incidents.

Validated Impact:
Instant log correlation, root cause identification, and automated remediation code.

CONTINUOUS SKILL ACQUISITION

AI as a "Just-in-Time" Learning Engine

In-Flow Upskilling

Paradigm Shift in Training

TRADITIONAL LEARNING MODEL

Periodic classroom courses, static documentation, delayed application leading to high skill decay.

JUST-IN-TIME LEARNING MODEL

Contextual AI assistance embedded directly inside daily mission platforms at the exact moment of need.

"Learning happens in seconds while solving live operational problems."

Core Enablement Mechanisms

1. **Grounded Policy & Spec Synthesis:** Airmen ask complex technical questions and receive answers grounded strictly in unit AFIs and SOPs.
2. **Guided Code & Query Debugging:** Interactive feedback on SQL queries, Python scripts, or command line flags in real time.
3. **Adaptive Complexity Scaffolding:** LLM explains complex concepts adjusted to the user's specific rank, specialty, and baseline knowledge.

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Outcome: Eliminates training lag and accelerates operational readiness.
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DOW ENTERPRISE PLATFORM

GenAI.mil: IL5 Enterprise AI Capability

IL5 Authorized

3M+	1.2M+	100K+	IL5
Authorized DoW Users	Active Monthly Users	No-Code Agents Built	Strict Data Sovereignty

Core Capabilities Available Today

- **Gemini Enterprise:** Multi-modal AI reasoning at commercial scale.
- **Enterprise Web Grounding:** IL5-compliant Google search grounding.
- **Agent Designer:** No-code custom operational agent builder.
- **Deep Research:** Autonomous multi-source research synthesis.

Gemini Notebook Enterprise

- **Zero-Hallucination Grounding:** Answers derived solely from uploaded files.
- **Multi-File Ingestion:** Analyze PDFs, Google Docs, Slides & CSVs in one notebook.
- **Interactive Audio & Synthesis:** Generate audio overviews & study guides.
- **Mission Privacy:** Fully isolated tenant boundaries without public web leakage.

DAY JOB TRANSFORMATION

GenAI.mil in the Day Job

Specialty Tracks

Cyber Operators

- Analyze 100s of firewall & server logs instantly.
- Audit unclassified code for vulnerabilities.
- Synthesize threat intel into executive SITREPs.

Focus: Incident Response & Code Review

Data Engineers

- Draft SQL queries and Python ETL pipelines.
- Parse unstructured log files into clean JSON schemas.
- Connect local data sources via secure MCP servers.

Focus: Pipeline Automation & Schemas

Program Managers

- Convert raw supervisor notes into AFI-compliant awards.
- Query acquisition regulations & check SOW compliance.
- Automate weekly status reporting and briefings.

Focus: Admin Velocity & Compliance

LIVE DEMO SCENARIO

Cyber Warrior: Gemini Enterprise & Notebook

Incident Triage Demo

1. Gemini Enterprise UI

Emergency Alert Ingestion

Cyber operator receives notice of encrypted IT assets and dark water supply dashboards at 0200 hours.

Agentic Log Correlation

Uses Gemini Enterprise Agent Designer to upload 150+ lines of firewall logs and isolate anomalous IP traffic in seconds.

Capability: Fast triage across unstructured inputs

2. Gemini Notebook Enterprise

Grounded Source Analysis

Operator attaches incident SOPs, network topology PDFs, and legacy scripts into a isolated Gemini Notebook.

Zero-Hallucination SITREP

Queries system for remediation steps; AI synthesizes grounded command brief without inventing non-existent protocols.

Capability: Precise, grounded decision support



Thank You

Let's build the next generation of digital warriors together.

Contact: **adamtaj@google.com**

Tomorrow's Session Spotlight

How to Leverage GenAI.mil

Join us on **8/26 @ 9:40 - 10:30 AM** in **Alabama C** for an exclusive deep dive.