

MATTHEW G. SIZEMORE

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U.S. Citizen | TS/SCI (Adjudicated 2017)
10-Point (CPS) Veterans' Preference: 100% Service-Connected Disability

PROFESSIONAL SUMMARY

AI and systems engineering executive with 20+ years directing collaborative projects, leading enterprise cloud-native modernization efforts, and advising high-ranking officials on artificial intelligence, cloud, and data initiatives across defense, intelligence, and commercial sectors. Implements AI solutions in production environments - deploying LLM-powered applications, RAG architectures, computer vision systems, and ML platforms. Formulates technical strategies, standards, and architectures for secure and ethical AI deployment incorporating DevSecOps principles and Agile development. Combines enterprise program direction with hands-on AI/ML engineering and computer hardware/software integration.

PROFESSIONAL EXPERIENCE

Chief Engineer & Principal Systems Engineer

KBRwyle - Defense Engineering - Warner Robins, GA | 03/01/2020 - 11/01/2022 | 40+ hours/week

Directed all engineering efforts and personnel for defense engineering division following INCOSE systems engineering and PMI project management standards. Led enterprise modernization of legacy defense systems through digital engineering. Served as final technical authority for software, firmware, and hardware products.

- Directed cross-functional integrated teams to on-budget, on-schedule milestones across software, firmware, and hardware - directing collaborative projects
- Led enterprise-level modernization efforts - reverse-engineering legacy systems and developing Form/Fit/Function/Interface compatible digital replacements following Defense Acquisition Guidebook protocol
- Communicated metrics to interdepartmental leadership and senior DoD officials - advising high-ranking officials on technology adoption and modernization strategies
- Ensured cybersecurity, configuration management, and risk management across all products with final review authority for all drawings, code, and documentation
- Collaborated with Senior Executives to ensure alignment of technology adoption with mission priorities and organizational goals
- Contributed to shaping DoD technology policy through recommendations on F3I standards, influencing Department-wide adoption of digital engineering practices

Co-Founder & AI-First Software Developer

Mopac Software (and CrushGTM) - Austin, TX | 11/03/2025 - 12/19/2025 | 100+ hours/week @ 6-week sprint

Co-founded AI-first startup building Agentic Ads Manager platform. Co-directed collaborative project spanning product development, engineering, and market launch. Exceeded \$1.2M sales in 6 weeks.

- Implemented AI/ML solutions in production environments - deployed Agentic Campaign Manager with LLM integration and autonomous ad optimization
- Applied cybersecurity practices in AI cloud environments - secure authentication, API key management, data protection
- Participated in Agile development, contributing to sprint planning and execution across 7-day and 72-hour sprints
- Led cross-functional team - mentored developers, conducted code reviews, managed bug tracking throughout development lifecycle

Founder & Chief Executive/Technology Officer

Right Size Engineering - Warner Robins, GA | 06/01/2024 - Present | 40+ hours/week | SDVOSB (targeted status)

Direct enterprise AI engineering strategy and cloud-native product development with ISO 9001-aligned quality processes and ISO 27001 security controls. Deploy AI solutions in production environments for commercial and government use.

- Deploy production AI-powered SaaS platforms integrating LLM APIs (Claude, GPT-4, Grok) with cloud-native architectures - implementing AI solutions in production
- Advise government officials on AI adoption strategy, cloud-native architecture, and secure data processing; conduct cybersecurity risk assessments for AI-enabled systems

Lead Program Engineer & Device Architect

Chemring Energetic Devices - Remote (Downer's Grove, IL) | 08/01/2023 - 05/01/2024 | 40+ hours/week

Directed collaborative R&D project developing SafeAssure UAS integrated fuze/safety device. Led cross-functional integrated team spanning multiple engineering disciplines.

- Directed collaborative project spanning firmware (VHDL), electronic design, HITL test, and manufacturing
- Directed design and integration of computer hardware/software; programmed embedded firmware
- Advised senior DoD and industry stakeholders on technical capabilities and program strategy

Senior Electrical Engineer & Lead Systems Engineer

Sumaria Systems - RFCM Active Expendables - Warner Robins, GA | 02/01/2018 - 02/01/2020 | 40+ hours/week

Led systems engineering for Radio Frequency Countermeasures supporting electronic warfare for USAF/Joint aircraft. Generated 3D Model-Based Technical Data (Digital Twin) for ALE-50 Fault Isolation System Tester. Provided secure systems integration oversight.

Lead Systems Engineer / Configuration & Risk Manager

Credence Management Systems - Warner Robins, GA | 01/01/2016 - 02/01/2018 | 40+ hours/week

Led systems engineering per INCOSE SE Handbook across C2ISR Division, AN/ALQ-221 Electronic Warfare Suite (U-2), and AN/ASQ-230 Intelligence Sensor programs supporting national intelligence missions.

- Advised division leadership on Lean/Agile process modernization; shaped custom Agile implementation - participating in Agile development
- Collaborated regularly with senior leadership; contributed to division-level policy development on systems engineering standards influencing AFLCMC-wide practices
- Provided liaison and central leadership for geographically diverse cross-functional team - directing collaborative projects
- Updated U-2 Program Protection Plan - cybersecurity and system security engineering; oversaw milestones per DoDI 5000.02

Research Engineer & Project Director

Georgia Tech Research Institute - Atlanta, GA | 08/01/2013 - 12/01/2015 | 40+ hours/week

Directed research projects applying machine learning and data science to defense systems analysis. Applied ML methods to reliability analysis of AN/ALE-50 systems - implementing AI/ML solutions in test environments.

Airfield Operations Executive / Air Traffic Controller / B1-B Avionics

United States Air Force - Various Locations | 10/01/1999 - 10/01/2009 | 168 hours/week | Honorable Discharge

10-year military career in Communication, Navigation, & Mission Systems, A.S. Avionic Systems Technology and Airway Science. Managed airfield operations and maintained avionics systems for aircraft mission readiness. Provided Air Traffic Control services. Maintained Mission Critical avionics and squadron readiness.

EDUCATION

- **Gauntlet AI Fellowship (Cohort 3)** - Austin, TX - 10/13/2025 - 12/19/2025 | 100+ hrs/wk
 - Built production-ready AI messaging platform with LLM integration, RAG, autonomous agents
 - Implemented AI solutions in production
- **M.S. Electrical Engineering & Software Eng** - Mercer University - 2016
 - Capstone: AI/Computer Vision (OpenCV) autonomous turreted vehicle with Analog Steering Computer
- **B.S. Electrical/Electronics Engineering** - Mercer University - 2014
- **B.S. Air Traffic Control** - Thomas Edison State University - 2009
- **A.S. Applied Airway Science** - Community College of the Air Force - 2007
- **A.S. Avionic Systems Technology** - Community College of the Air Force - 2006

TECHNICAL SKILLS

- **AI/ML:** LLM & Agentic Integration, RAG, Vector Databases, Computer Vision, scikit, Autonomous Agents
- **Cloud/DevSecOps:** AWS, Docker, CI/CD, NIST SP 800-171, CMMC
- **Software:** Static/Dynamic White-Box Testing, AI/ML, Ux, Front-End, Full-Stack
- **Hardware:** Robotics, Controls, Signal Processing, Analog/Digital Circuits & FPGA Design, HITL Testing
- **Languages:** Python, C++, Java, TypeScript, JavaScript, Objective-C, Swift, VHDL, SQL
- **Management:** Lean/Agile/Waterfall, Risk Management, Configuration Management, Microsoft Project, Jira, GIT
- **Standards:** DAU DAG, INCOSE SE, PMI/PMBOK, ISO, NIST, IEEE, ASME, MIL-STD