

MARK SUTHERLAND

ASSOCIATE, DAYTON AEROSPACE, INC.

PROFILE

Senior, industry leader with over 30 years of engineering and management experience providing product development, design and support for military aircraft, weapon systems and automated testers. Mechanical engineering and structures subject matter expert with specialized expertise in F-16 airframe design, manufacturing and tooling. Well versed in risk and configuration management; earned value management (EVM); and process management, measurement and improvement. Known for transforming troubled projects into mission success with proven experience leading engineering operations and developing new business. Routinely connects solution offerings with customer needs.

PRINCIPAL AREAS OF EXPERTISE

Airframe Subject Matter Expert

Led development of multiple F-16 production airframe configurations for the US Air Force (USAF) and foreign military sales (FMS) customers. Integrated conformal fuel tanks into F-16 aircraft. Oversaw aircraft structural integrity program (ASIP), service life extension programs (SLEP) and numerous campaign retrofits.

Engineering Operations

Extensive engineering operations background at Lockheed Martin and Elbit Systems of America and through numerous independent consulting projects. Led TeamCenter product lifecycle management (PLM) deployment for the F-35 airframe team, creating a world-wide collaborative and process management environment for design, analysis, test, and support. Integrated engineering tools and processes within enterprise-level systems in accordance with AS9100 and CMMI.

Systems Engineering

Led numerous systems engineering and integration teams (SEIT) across multiple programs. Expertise includes configuration management, data management, reliability, maintainability, testability, system safety and requirements management for airframe and aircraft systems.

Program Management

Accomplished in risk management, integrated master schedules (IMS), integrated master plans (IMP), work breakdown structures (WBS) and earned value management (EVM).

Production Engineering

Extensive experience leading production engineering organizations that include manufacturing engineering, production planning, tool design, NC programming and manufacturing test equipment.



DAYTON AEROSPACE

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EDUCATION

BS, Mechanical Engineering
University of Kentucky

**Configuration Management
Principles & Implementation
Certification (CMPIC)**
University of Houston

KEY POSITIONS

**Headquarters Engineering
Operations Director**
Elbit Systems of America

System Integration and Test Director
Elbit Systems of America

F-35 Airframe Integration IPT Leader
Lockheed Martin

F-16 Airframe IPT Leader
Lockheed Martin

Big Safari Chief Engineer
Lockheed Martin

Technical Consultant
Aerospace & Commercial
Technologies

AWARDS & RECOGNITION

**Elbit Systems of America Community
Service Recognition (2009)**

**Lockheed Martin Special Recognition
Awards (2004, 2003, 2000 & 1997)**

**Lockheed Martin Corporate Incentive
Award (1998)**

**GD Incentive Compensation Award
for F-16 I-R Program Recovery (1992)**

WORK HISTORY

Associate | Dayton Aerospace, Inc.

2018-present, Dayton, OH

Supports government and industry customers in a wide range of tasks including program management, systems engineering, manufacturing engineering, structural engineering, program execution support, fleet sustainment, proposal development and review, business capture planning, integrated master plan and schedule (IMP/IMS) development and earned value management (EVM).

President | Sutherland Dynamics, LLC

2014-2017, Fort Worth, TX

Trusted advisor specializing in technical, operations and project management for defense and aerospace programs. Contracted services include: business development process mapping and procedure maturation, new business proposal management and support, product life-cycle management (PLM) and enterprise project and portfolio management (EPPM) system evaluations and deployment, program assessment and recovery, and third-party assessment and advisory for aerospace hardware distribution company. Supplier of aerospace standard hardware for legacy airframes and systems, marketed through Aero Technical Components.

Technical Consultant | Aerospace & Commercial Technologies

2013-2016, Fort Worth, TX

Oversaw F-16 Block 30 Wing Overhaul Program for the Israeli Air Force (IAF). Transformed empty building into premier F-16 wing repair and overhaul facility. Program responsibilities included contracts, pricing, plans, schedules, factory layouts, tear-down inspections, manufacturing tooling concepts, assembly fixtures development and product flow. Successfully completed unprecedented overhaul for "proof of concept" wings, resulting in follow on orders from the IAF and additional foreign air forces.

Headquarters Engineering Operations Director | Elbit Systems of America (ESA)

2012-2013, Fort Worth, TX

Engineering corporate department head responsible for configuration management, test system development, and specialty engineering (reliability, maintainability, product safety and human factors) across three ESA sites. Led consolidation of engineering tools, significantly decreasing initial procurement and annual maintenance costs.

Fort Worth Engineering Operations Director | Elbit Systems of America

2007-2011, Fort Worth, TX

Established engineering operations team to include specialty engineering, business operations and configuration management. Assumed responsibility for Capability Maturity Model Integration (CMMI) compliance in 2007 and achieved successful Standard CMMI Appraisal Method for Process Improvement (SCAMPI) A appraisals for maturity level III in 2008 and 2011. Created product safety program and high maturity level risk management process.

Fort Worth System Integration and Test Director | Elbit Systems of America

2007, Fort Worth, TX

Established test system development and manufacturing as core capabilities for ESA Fort Worth operations. Leveraged National Instruments hardware and LabVIEW/Test Stand software for highly successful common architecture rack-mounted test systems. Oversaw 15 product development/integration labs and construction of multi-million-dollar reconfigurable system integration lab.

Senior Manager/IPT Team Leader, F-35 Airframe Integration Team | Lockheed Martin

2003-2006, Fort Worth, TX

Led F-35 airframe operations and integration teams during system development and demonstration (SDD) phase. Responsible for integrating build-to-package processes, requirements, risk management, design verification and proposal management across worldwide F-35 airframe team. Established initial engineering material review board (MRB) organization for entire F-35 program.

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Chief Engineer, Big Safari Programs | Lockheed Martin
2003, Palmdale, CA

Oversaw engineering functions and technical operations for Big Safari (special ops) programs. Led design recovery and orchestrated re-baseline of flight test plans for troubled Commando Solo program, creating turning point for predictable program execution. Received special recognitions from Special Mission Programs vice president and Detachment 4 commander.

Senior Manager/IPT Team Leader, F-16 Airframe Team | Lockheed Martin
1997-2002, Fort Worth, TX

F-16 airframe team leader responsible for airframe design, structural integrity, manufacturing engineering, production planning and tool design for multi-billion dollar F-16 development, production, and sustainment programs. Led 30 managers and grew team from 350 to 800 members while implementing concurrent development of customer unique airframes for four major programs. Oversaw F-16 program transition from metal to computer mockup, yielding multi-million-dollar cost reductions. Introduced highly successful Build to Package (BTP) Center, resulting in 80% span-time reduction for implementing engineering changes.

Prior to 1997

- Manager/IPT Team Leader, F-16 Airframe Integration Team, Lockheed Martin, *Fort Worth, TX*
- Project Engineer, F-16 Engineering Project Office, Lockheed Martin, *Fort Worth, TX*
- Program Manager, F-16 Program Office, Lockheed Martin, *Fort Worth, TX*
- Senior Structural Design Engineer, F-16 Wing and Empennage, Lockheed Martin, *Fort Worth, TX*
- Structural Design Engineer, Tennessee Valley Authority, *Knoxville, TN*

RECENT PROJECTS

- Applied air system development expertise towards ASIP master planning, corrosion prevention and control planning, finish specifications, weight and balance reporting and technical performance parameter (TPM) development.

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