

ALEX KANELLAKOS

PROFESSIONAL PROFILE

Distinguished Aerospace and Defense Systems Leader with extensive experience guiding engineering innovation across mission-critical programs. Advisor to NASA, DoD, USAF, and NAVAIR—renowned for shaping industry-wide safety protocols, enhancing survivability standards, and driving technical strategy in high-security environments. Proven influence in risk governance, systems architecture, and high-value transformative contract acquisition.

INDUSTRY THOUGHT LEADERSHIP

- Championed modernization of military satellite safety protocols; contributed to MIL-STD-882E evolution
- Developed EMI/EMC safety frameworks adopted across aerospace review boards and contractor networks
- Strategic consultant to NASA's Orbiter and ISS programs—pioneered cross-agency mission assurance models
- Influenced contract awards exceeding \$100B through proposal architecture and systems evaluation
- Delivered new designs on hybrid electronics reliability, EMP survivability, and V&V methodologies

STRATEGIC INFLUENCE SUMMARY

Domain	Leadership Impact
Systems Safety & Resilience	Defined survivability benchmarks for military and commercial aerospace platforms
Engineering Governance	Led technical reviews shaping national and organizational safety policy
Defense Acquisition Strategy	Directed C4ISR integrations and PESHE analyses for multi-billion-dollar proposals
EMI/EMC Infrastructure	Designed microwave reporting systems and robotic test labs for flight certification
Technical Innovation	Architected RF systems, mixed-signal platforms, and advanced satellites

SELECTED EXECUTIVE EXPERIENCE

Aerospace Systems Safety Engineer Innova Solutions / Volt Technical Resources	Orange, CA
<ul style="list-style-type: none">• Conducted EMI/RFI testing for USAF and NAVAIR platforms.• Supported avionics integration for major aerospace contractors.	
Senior Space Systems Safety Engineer Kalman & Company	El Segundo, CA
<ul style="list-style-type: none">• Directed AFSPC safety programs at Los Angeles AFB.• Supported operational launch systems at Vandenberg AFB.	
Lead Systems Engineer SAIC	Huntington Beach, CA
<ul style="list-style-type: none">• Liaison for TACOM combat vehicle systems and Boeing defense initiatives.• Led systems reliability and survivability analyses.	
Lead Systems Engineer & Strategic Consultant, Orbital Sciences Corporation	Mountain View, CA
<ul style="list-style-type: none">• Delivered systems engineering for NASA Ames and Lockheed Martin programs.• Applied V&V methodologies and MIL-STD compliance in satellite architecture.	
Procurement Quality Engineer, Space Systems / Loral - Loral Fairchild Imaging Systems	Palo Alto, CA
<ul style="list-style-type: none">• Oversaw quality engineering for MILSATCOM satellite components.• Specialized in semiconductor, hybrid electronics and aerospace-grade manufacturing.	
Consultant / Strategic Engineering Director, Spartan Metallurgical Company	Nationwide
<ul style="list-style-type: none">• Directed safety and technical operations for >\$ 12B in defense satellite programs.• Supported proposal and system evaluations leading to >\$ 100B in defense contracts.• Developed EMP-resilient RF/microwave communications and robotic testing frameworks.	

ALEX KANELLAKOS

EDUCATION & CERTIFICATIONS

Education:

San Jose State University – B.S. in Materials Science and Engineering

Certifications:

- Management Science and Engineering (NDO) – Stanford University
- System Safety Certificate – University of Southern California
- Programmatic ESOH Evaluation – U.S. Air Force Space Command
- C4ISR Systems Integration – USAF Space Command
- Systems Acquisition Management – Johns Hopkins University
- Defense Acquisition University – Fundamentals
- Foothill Jr College – A.S. Engineering / B.A. Liberal Studies

SKILLS SNAPSHOT

Systems Architecture · Aviation Flight Worthiness · Aerospace Systems Safety · Risk Mitigation · EMI/EMC Strategy
MIL-STD Compliance · Defense Contracting · C4ISR Integration · Proposal Development · RF Engineering · Hybrid
Microelectronics · Mission Assurance · Technical Leadership · Launch and Range Safety · Marketing & Advertising

ADDITIONAL SPARTAN EXPERIENCE – CONTRACT CONSULTANT ROLES (S.F. Bay Area)

Memorex Corp ★ BAE Systems Inc. ★ Gammadata Mätteknik AB ★ Solitec Wafer Processing, Inc. ★ NASA ★ Dover Corporation ★ Shell USA, Inc. ★ Lockheed Martin Corp. ★ Intel Corp. ★ Cisco Systems, Inc. ★ Hewlett Packard Co.

CLEARANCE STATUS

DoD Secret – Expired



“References upon request”