

DR. PAUL LILLY

Profile

Dr. Paul Lilly provides technical subject-matter expertise to Suss Consulting clients in cybersecurity, information technology and operational technology (IT/OT), and emerging technologies, including post-quantum encryption, artificial intelligence, high-performance computing, quantum security, and graphene and superconducting materials, with additional depth in CBRNE and counterterrorism. He has served as a technical SME, technical director, and advisor on federal bids and programs across more than 30 years in government and corporate roles spanning the U.S. Intelligence Community, the Department of Defense, federal civilian agencies, and international partners, and has held the highest-level federal security clearances the government issues with multiple agencies. He is a named inventor on two U.S. patents in advanced materials with applications in critical infrastructure and national security and previously served on the Board of Advisors of the National Graphene Association.

Relevant Experience

Dr. Lilly's cyber and information technology credentials run from the laboratory to the capture room. Over the past four years he has supported IT/OT and post-quantum encryption efforts with Army Futures Command and the Department of Defense at the Pentagon, and he speaks annually at AFCEA TechNet Augusta, the U.S. Army Cyber Center of Excellence's flagship cyber conference, as an IT/OT and post-quantum encryption expert, leading panels in 2024 and 2025 on supply chain cyber defense and nation-state cyber threats. At Lockheed Martin, he oversaw nine cyber laboratories while leading new technology development and solution leadership for customers including special operations forces and the U.S. Navy. He served as Capture Manager and Technical Director on a \$1.2 billion classified NSA win (2014), provided capture, SME, and Basis of Estimate support on the \$1.4 billion USAF MAF DMO win, and served as Proposal Manager and SME on the \$1.6 billion ADF Future Submarine Program win. He was the leader of a three-person team that recently discovered spyware in counterfeit televisions within the Department of War, and since 2017 he has served as a Principal Consultant, providing scientific support in graphene, superconductive technologies, CBRNE, and cyber/HPC, as an SME and advisor.

His broader federal national security record includes designing the Pentagon CBRN protection system, covering training, emergency evacuation planning, and deployment for the campus's 90,000 daily employees and visitors, helping stand up the Pentagon Force Protection Agency, consulting to the FBI Hazardous Materials Response Unit, serving as a Defense Intelligence Agency special consultant for counter-weapons systems with deployments to Iraq and Afghanistan in 2004, 2005, and 2006, and holding emergency management and other roles at the White House, the United States Congress, and the Supreme Court. His federal customers have included JPEO-CBD, the Department of Defense, the Pentagon, the U.S. Secret Service, and the U.S. Marshals Service.

In industry, Dr. Lilly spent 14 years with Lockheed Martin, later served as a Vice President at Engility Corporation (acquired by SAIC), and is the founder and Chief Executive Officer of Taj Quantum, a Central Florida advanced-materials and quantum-security technology company. He served as Safety and Emergency Director for Lockheed Martin in Antarctica (2012-2013) under the Lockheed Martin Antarctic Support Contract operating the United States Antarctic Program, responsible for safety and travel in and out of the entire continent, with deployments to McMurdo Station, the South Pole, and Palmer Station, and was awarded the Antarctic Service Medal in 2013. Early in his career, he worked in the high-tech space industry on satellites supporting the International Space Station.

Dr. Lilly served as a standing Expert Technical Consultant to Time Magazine from 2001 to 2016 on counterterrorism, weapons of mass destruction, and emergency preparedness, has appeared as an on-the-record expert for MSNBC, Fox News, and CNN, and routinely briefed the Pentagon Press Corps in 2007.



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Education

Doctor of Management (DM), Executive Management & Global Leadership, Colorado Technical University

Master of Business Administration (MBA), Finance and Marketing, Colorado Technical University

Bachelor of Science, Information and Security Assurance (Engineering/IT focus), minor in Program Management,
Magna Cum Laude, Colorado Technical University

Certifications

Lean/Six Sigma Green Belt and Black Belt



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