GERALD R WILLIAMS

PhD | PMP | ENGINEERING EXECUTIVE

321-522-7997 | Astro@DrAstro.com | www.DrAstro.com

Engineering leader directing global embedded systems organizations across aerospace, mobility, and electrical products. Combines technical judgment with business management, organizational development, and program delivery. Record includes leading a 55-person global team, turning around a $2 million deficit, and increasing annual site sales revenue by $8 million.

CORE EXPERTISE

Engineering strategy • Global team leadership • P&L and financial oversight • Talent development • Program and contract management • Centers of Excellence • Embedded systems • Test automation • Cross-functional delivery

PROFESSIONAL EXPERIENCE

EATON | 2011–Present

Senior Manager, Global Software Validation and Verification

Lead global embedded software and firmware verification and validation across aerospace, vehicle, truck, e-Mobility, and electrical businesses, with teams in Brazil, England, India, the Czech Republic, and the United States.

- Expanded V&V scope to include the electrical sector product line in 2024; incorporated automated x-in-the-loop testing and reporting metrics.
- Developed the electrical division's first automated high- and low-voltage HIL systems for Automatic Transfer Switch testing, saving tens of thousands of dollars in initial costs.
- Led an AI initiative to extract signal names from MATLAB models, establishing a foundation for automated test script development.

Selected accomplishments across prior Eaton leadership roles

Senior Chief Engineer, Industrial Sector SWEC; Senior Manager and Manager, Software CoE; Chief Engineer, Embedded Systems CoE

- Led strategy and operations for a Software Center of Excellence with 55 direct and indirect employees across five global locations; ranked in the top 5% of management in an employee survey.
- Directed multidisciplinary development spanning systems, electronics, embedded software, FPGA firmware, mechanical engineering, verification, and test equipment.
- Automated financial reporting and forecasting; supported other division and sector leaders with financial accounting and implemented global profit and five-year strategic plans.
- Delivered a sync controller integration across Wisconsin, Michigan, and Canada on schedule despite pandemic constraints and limited resources.
- Formed an international technical response team that resolved a critical executive-jet issue in less than 30 days, avoiding contractual penalties and preserving customer relationships.

EARLIER EXPERIENCE

ENSCO INC.

Director, Midwest Region | Earlier technical and program leadership roles

Directed regional engineering operations encompassing 80 personnel and 60 contracts across multiple states; combined operational leadership with tactical and strategic business development.

- Turned around a $2 million financial deficit while improving employee morale.
- Developed financial tools deployed across the company, recovered revenue dating back three years, and increased annual site sales revenue by $8 million.
- Initiated and achieved AS9100 and CMM/CMMI certifications; introduced Lean, Six Sigma, agile development, and model-based practices.
- Established an avionics modeling and simulation Center of Excellence; supported programs including F-35, Boeing 787, Airbus A350, A400M, and P-8.
- Created an automated test environment generating thousands of test cases and saving an estimated $3 million in outsourcing costs.

ADDITIONAL LEADERSHIP

U.S. Air Force officer and flight commander: led 50 military and contractor personnel supporting launch operations; managed a 30-person software team and a $1.3 million technical support contract. Earlier U.S. Marine Corps electronics and radar experience. Columbia College adjunct professor in engineering and leadership; named Instructor of the Year.

TECHNICAL AND PROFESSIONAL SKILLS

Engineering: Embedded software and firmware, systems integration, model-based development, hardware-in-the-loop (HIL) and model-in-the-loop (MIL) testing.

Delivery and quality: Program management, EVMS, financial forecasting, staffing, contract management, agile methods, Design for Six Sigma.

Technology and standards: MATLAB, Simulink, NI LabVIEW, Jira, Jama, DOORS; DO-178, DO-254, ASPICE, ISO 26262, IEC 61508, ARP4754.

EDUCATION AND CREDENTIALS

PhD, Computer Systems | Nova Southeastern University

MS, Software Engineering | University of Central Florida

MA, Business | Webster University

BS, Computer Engineering | University of Memphis

Project Management Professional (PMP) • Design for Six Sigma (DFSS) Black Belt