

SMALL ARROW ENGINEERING, LLC



Jeffery E. Lewis, P.E. – Senior Engineer

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Education:

Bachelor of Science Degree – Civil Engineering
Kansas State University, Manhattan, KS May 1982

Professional Registrations:

Professional Engineer, State of Kansas #11667

Professional Associations:

ASCE – American Society of Civil Engineers

Professional Experience:

Nov 2014 to Present – Small Arrow Engineering, LLC
May 1982 to Oct 2014 – The Boeing Company (Retired)

Work Experience:

Jeff Lewis brings over 32 years of mechanical systems, avionics and payloads project design and testing experience in the military aerospace business working on various projects with the United States Navy, United States Air Force, Japan Air Self Defense and Royal Netherlands Air Force on numerous VIP transport, airborne surveillance, refueling tanker aircraft. His experience ranges design, component fabrication, qualification and installation support and full scale testing of aerospace systems including fuel, hydraulics, environmental controls and oxygen, as well as avionics and mission equipment. With his experience in complex mechanical system design and testing, he is now positioned to support Small Arrow in the growth in the number of compressed natural gas (CNG) fueling stations in the United States.

Past Experience:

September 2010 to October 2014: Mechanical Systems Project Technical Lead Engineer - B-52H Bomber Enhancement and Sustaining Engineering for Boeing Defense, Space and Security – Wichita, KS/Oklahoma City, OK. Responsible for project leadership and subject matter expert coordination for mechanical systems sustaining and modification concept development, design, fabrication, qualification, aircraft shipside installation and aircraft test support for ECS, Fuels, Hydraulics, Flight Control, and Oxygen systems for the B-52H aircraft and weapon systems.

Jeffery E. Lewis, PE – cont'd.

September 2001 to April 2004: Mechanical Systems Lead Design Engineer –KC-10 and KDC-10 tanker/transport aircraft for Boeing Defense and Space – Wichita, KS. Responsible for military system installation design, fabrication and qualification, aircraft shipside installation and aircraft shipside test support for mission system ECS, flight deck, avionics and mission equipment modifications.

September 1997 to August 2001: Mechanical Systems Lead Design Engineer – C-32A, C-40B and VC-25 United States Air Force VIP transport aircraft for Boeing Defense and Space – Wichita, KS. Responsible for military system installation design, fabrication and qualification, aircraft shipside installation and aircraft shipside test support for mission system ECS, flight deck, avionics and mission equipment installation, and payload/interior provisions installation.

August 1993 to August 1997: Mechanical Systems Design Engineer – E-767 (Japan) AWACS surveillance aircraft for Boeing Military Aircraft – Wichita, KS. Responsible for sub-system installation design, fabrication and qualification, aircraft shipside installation and aircraft shipside test support for mission system environmental control systems (ECS) and sustaining design for fuel, oxygen, hydraulics systems.

March 1990 to July 1993: Configuration Management/Mechanical Systems Design Engineer – C/KC-135 and C-135FR tanker transport aircraft for Boeing Military Aircraft – Wichita, KS. Supported re-engine and wing refueling pod kit production and installations and performed modification design for mechanical and environmental systems.

April 1984 to February 1990: Structural/Mechanical Test Engineer – B-52H Bomber Common Strategic Rotary Launcher and A-6E Intruder composite re-wing test programs for Boeing Military Aircraft – Wichita, KS. Responsible for conducting environmental system tests, component tests, full scale aircraft static and fatigue tests and aircraft calibration loading. Work assignments included test setup and instrumentation design, test setup supervision and conduct of tests. Activities included coordination of requirements, detail design of test fixtures and equipment, definition of test instrumentation requirements, hydraulic components and load cylinder selection and sizing, and test reporting.

June 1982 to March 1984: Configuration Management Engineer – KC-135R aircraft re-engine program for Boeing Military Aircraft – Wichita, KS. Work included engineering design change coordination and configuration management and control per military standards.

