

Rex J Alexander

Curriculum Vitae

PERSONAL DATA

Address: 12308 Redding Drive, Fort Wayne, Indiana 46814
Phone: 260-494-0891 ■ Email: rex@heliexp.com ■ Web: www.heliexpertsinternational.com

EDUCATION & CERTIFICATIONS

- 2013: International Business Aviation Council (IBAC) International Standards for Business Aircraft Operations (IS-BAO) Auditing Workshop, Chicago, IL
- 2013: International Business Aviation Council (IBAC) International Standards for Business Aircraft Operations (IS-BAO) Fundamentals of IS-BAO Workshop, Chicago, IL
- 2010: Transportation Safety Institute (TSI) / Federal Aviation Administration (FAA) Heliport Evaluation (Prototype) Training course, Oklahoma City, OK
- 2006: Performance Improvement Training for Healthcare, Executive Learning Inc., Dallas, TX
- 2006: Corporate Facilitator Training, Executive Learning Inc., Dallas, TX
- 1990: United States Army Crew Resource Management Instructor Course, Fort Hood, TX
- 1990: United States Army Aeroscout Instructors Course, Fort Rucker, AL
- 1987: United States Army Aeroscout Aviators Course, Fort Rucker, AL
- 1986: United States Army Rotary Wing Basic Course, Fort Rucker, AL
- 1986: United States Army Warrant Officer Course, Fort Rucker, AL
- 1985: B.S. in Aviation Maintenance and Management, Parks College of Aviation & Aerospace Technology, St. Louis University, St. Louis, MO
- 1985: Certified Airframe and Powerplant (A&P) Technician, Parks College of Aviation & Aerospace Technology, St. Louis University, St. Louis, MO

WORK EXPERIENCE

Senior Consultant, Member and Co-Founder

Jan 2012 – Present: HeliExperts International LLC

- International consultancy services in the aviation, helicopter and air medical industries. Specializing in heliport safety, design, risk analysis and audits, aviation infrastructure design, HEMS operations, IS-BAO Auditing, education, training, litigation support and expert witness services.

Consultant

Apr 2004 – Jan 2013: Owner/Operator of R.J. Alexander Consulting, L.L.C.

- Consultant in the aviation, helicopter and air medical industries specializing in heliport design, operations, training and safety.

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Helicopter EMS Lead Pilot

Aug 2011- Apr 2013: Air Methods Corp. Englewood, CO

- Lead pilot and air medical helicopter pilot for Air Methods Corp at Lutheran Hospital, Fort Wayne, Indiana.

Regional Operations Manager, Central United States

Nov 2008 – Aug 2011: Omniflight Helicopters Inc., Dallas, TX

- Oversee and coordinate part-135 air medical helicopter operations at 24 locations in 8 states throughout the Central United States.
- Primary liaison for operations, safety, maintenance and customer relations for hospital based operations.
- Lead Project Manager overseeing multiple new startup programs and the integration of established programs.
- Primary trainer and educator of base managers, site managers, medical crews and communication specialists.
- Base auditor and inspector.

Helicopter EMS Base Manager & Lead Pilot

Apr 2004 – Nov 2008: Omniflight Helicopters Inc., Dallas, TX

- Base manager and air medical helicopter pilot for Omniflight Helicopters at Lutheran Hospital, Fort Wayne, Indiana.

Helicopter EMS Pilot & Base Safety Manager

Jul 1994 – Apr 2004: Omniflight Helicopters Inc., Dallas, TX

- Air medical helicopter pilot at Methodist Hospital in Indianapolis, Indiana.
- Program safety Manager

Offshore Helicopter Pilot in the Gulf of Mexico

Feb 1994 – Jul 1994: Crescent Helicopters, Galveston, TX

- Provide transpiration to oil field operators, equipment and supplies throughout the oil field infrastructure of the Gulf of Mexico.

Military Helicopter Pilot, Instructor Pilot and Standardization Instructor Pilot

Oct 1985 – Mar 1995: U. S. Army Active & Guard, Worldwide operations

- Helicopter pilot in command operating both in the United States and overseas.
- Attached to the following units of operation: General Support Company, Helicopter Cavalry Squadron, Attack Helicopter Battalion, and Target Acquisition and Reconnaissance Platoon.
- School Trained Aeroscout and Aeroscout Instructor Pilot
- Standardization Instructor Pilot
- Specialization: Reconnaissance, Target Acquisition, Close Air Support, Joint Air Attack Coordination and Command and Control. Advanced combat skills instructor for day, night and night vision goggle operations.

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Aircraft Manufacture, Inspector

Jan 1985 – Aug 1985: *McDonald Douglas Corp., St. Louis, MO*

- Structural and component inspector specialized in composite and sheet metal fabrication inspection during construction and assembly of:
 - F-18 Hornet
 - F-15 Eagle
 - AV-8B Harrier

CREDENTIALS

- **Commercial Pilot**
 - Rotorcraft-Helicopter
 - Instrument-Helicopter
- **Private Pilot**
 - Airplane Single-Engine Land
- **Mechanic Rating (A&P)**
 - Airframe
 - Powerplant
- **U.S. Military, Army**
 - Certified Aeroscout Pilot
 - Certified Aeroscout Instructor Pilot
 - Standardization Instructor Pilot

FLIGHT EXPERIENCE

Total Flight Time	5,100
Helicopter	5,000
Night	1,240
Cross Country	1,400
# of Patients Transported	3,130

Pilot-in-Command	4,900
Military Instructor Pilot	427
Night Vision Goggle	310
Air Medical	3,230
Instrument	75

INDUSTRY EXPERIENCE

- Former President, National EMS Pilots Association
- Former President, Indiana Association of Air Medical Services

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- Board of Directors, National EMS Pilots Association
- Board of Directors, Indiana Association of Air Medical Services
- Committee Member- Helicopter Association International Heliport Committee
- Committee Member - Helicopter Association International Air Medical Services Committee
- Committee Member, National Fire Protection Association (NFPA) 418 Standards for Heliports.
- Committee Member, U.S. Helicopter Safety Team (IHST) Infrastructure Working Group (IWG)
- Committee Member, U.S. Helicopter Safety Team (IHST) Human Factors Working Group
- Past Instructor for the National Association of Air Medical Communication Specialists (NAACS)

CONSULTING SPECIALTIES

- Heliport Safety, Design, Audits & Risk Analysis
- IBC, IFC & NFPA code interpretation for heliports
- Helicopter Air Ambulance Specialist
- Aviation Infrastructure & Master Planning
- IS-BAO Auditor (Rotary Wing & Fixed Wing/Operations & Maintenance)
- Air Medical Program Design
- Air Medical Contract and RFP Design & Review
- Emergency Action Plan Evaluation and Construction
- Regulatory Interpretation & Research
- Government and Public Relations
- Public Speaker, Lecturer & Educator

LECTURES & SEMINARS DESIGNED & PRESENTED

- Preemptive Accident investigation Techniques from the FAA and NTSB
- Pilot Error Truth or Dare: Accidents at heliport blamed on pilots where poor infrastructure was a major contributing factor
- Haiti Aviation Infrastructure Design / Concepts for a Growing Country
- Helicopter Infrastructure Safety Concepts from the IHST/JHSIT/IWG
- HEMS Weather Reporting and Safety Issues
- HEMS Infrastructure An Accident Review
- Customer Service and Safety / Promises That Should Never Be Made
- Artificially Induced Heliport Turbulence / Causes, Effects and Prevention
- Magnetic Hazards at Heliports

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- Helipoint Paint Schemes for Night Vision Goggle Operations
- Creating a Compatible Night Vision System Infrastructure
- Aviation Weather and EMS Operations
- Air Medical Helicopter Scene Operations and Safety
- Emergency Action Plans and Good Practices
- First Responder Training for Air Medical Helicopter Operations
- Navigation and Map Reading
- Flight Following
- Radio Operations for EMS and Air Medicine
- Hazardous Materials and Helicopter Operations
- Aviation Operational Control in Air Medicine
- Federal Aviation Regulations
- Jet Fuel System design, Installation & Management
- Air Medical Personal Protective Equipment
- Hospital Staff Helicopter and Helipoint Safety
- Helipoint Design, Safety and Education
- Quality Communications Skills
- Setting Up and Running a Safety Committee
- Positive Habit Transfer in Aviation and EMS
- Air Medical Contracts 101
- HEMS Accident Intangibles
- HEMS Advanced Accident Investigation
- How To Be a Air Medical Base Manager
- Helicopter Ground Handling Safety
- Flight Physiology for Air Medical Crews
- Top-10 Killer Attitudes
- Air Medical Accident Review for Communication Specialists
- Safety & Shift Flight Briefings and Debriefings

SPEAKING & LECTURE ENGAGEMENTS

National Air Medical Transport Conference (AMTC)

- 2014 - Nashville, Tennessee
- 2013 - Virginia Beach, Virginia
- 2010 - Fort Lauderdale, Florida
- 2009 - San Jose, California
- 2008 - Minneapolis, Minnesota
- 2007 - Tampa, Florida
- 2005 - Austin, Texas

Helicopter Association International (HAI) HeliExpo Conference

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- 2014 - Anaheim, California
- 2013 - Las Vegas, Nevada
- 2012 - Dallas, Texas
- 2010 - Orlando, Florida

Indiana Emergency Response Conference (IERC)

- 2014 - Indianapolis, Indiana (INAAMS Midwest HEMS Conference)
- 2011 - Indianapolis, Indiana
- 2007 - Indianapolis, Indiana
- 2006 - Indianapolis, Indiana
- 2005 - Indianapolis, Indiana

National Business Aviation Association (NBAA)

- 2014 – Orlando, Florida

North Carolina D.O.T. Division of Aviation, State Helicopter Safety Conference

- 2008 - Lowes Motor Speedway, Concord, North Carolina

Indiana Hazardous Material Conference

- 2006 - Greenwood, Indiana

Transportation and Safety Institute (TSI); Oklahoma City, Oklahoma

- 2011 - Advanced Helicopter Accident Investigation / HEMS Operations
- 2010 - Heliport Design and Safety

National Association of Air Medical Communication Specialists (NAACS)

- Multiple years and locations throughout the United States.

PUBLICATIONS & ARTICLES

Rex J. Alexander, *“Are Your Heliports Killing Your Patients?”*, Waypoint AirMed & Rescue Magazine (August 2104); Impact that hospital heliport design can have on patient morbidity and mortality.

Rex J. Alexander, *“Magnetic Hazards at Heliports”*, Waypoint AirMed & Rescue Magazine (Issue 44 / March 2013); Magnetic hazards at heliports and risk mitigation strategies to avoid them.

Rex J. Alexander, *“Defeating the Survivor Syndrome ”*, Air Medical Journal, Presidents Forum, (March/April 2012); Avoiding the destructive us versus them syndrome.

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Rex J. Alexander, "*Making Opinions Count*", Air Medical Journal, Presidents Forum, (January/February 2012); An overview of NEMSPA's heliport safety survey results.

Rex J. Alexander, "*Professionalism*", Air Medical Journal, Presidents Forum, (November/December 2011); Introduction of the NEMSPA "Air Medical Pilots Credo in response to the NTSB naming professionalism to their Top-10 list.

Rex J. Alexander, "*Do the Right Thing*", Air Medical Journal, Presidents Forum, (September/October 2011); A breakdown of NEMSPA's philosophy, history and goals.

Rex J. Alexander, "*Who is NEMSPA*", Waypoint AirMed & Rescue Magazine, (August 2011); An overview of who and what NEMSPA is, does and has accomplished.

Rex J. Alexander, "*Breaking the Cycle*", Air Medical Journal, Presidents Forum, (July/August 2011); Avoiding the repetitive cycle of failure due to leadership change.

Rex J. Alexander, "*Heli-Expo 2011*", Air Medical Journal, Presidents Forum, (May/June 2011); An overview of current and ongoing NEMSPA industry initiatives.

Rex J. Alexander, "*Adding the Salt*", Air Medical Journal, Presidents Forum, (March/April 2011); An overview of NEMSPA's position paper on the FAA NPRM regarding rule making for part 135 and 91 helicopter operations.

Rex J. Alexander, "*Putting the Air Back In*", Air Medical Journal, Presidents Forum, (November/December 2010); An overview of the need to encourage programs to involve their pilots in the air medical industry.

Rex J. Alexander "*Here's Your Sign!*", National EMS Pilots Associations AIRNET (April 2010), Warning and caution signs that every heliport should have to enhance safety and reduce liability.

Rex J. Alexander, "*The Hot Load, Time Saver or Time Waster?*", National EMS Pilots Associations AIRNET (January 2009) Risk benefit evaluation associated with hot loading versus cold loading patients into a helicopter.

Rex J. Alexander, "*Air Medical Launch Times and Influencing Factors*", National EMS Pilots Association AIRNET (January 2008) Review of influencing factors that dictate what a reasonable safe launch time standard should be and the consequences of not paying attention to real world data and variables.

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Rex J. Alexander, "*Hospital Helipads: Safety, Liability, and Regulatory Issues Hospitals Must Know and consider*", National EMS Pilots Associations (September 2008) Web based presentation covering heliport design, safety, regulations, fire protection, risk assessment and liability considerations.

Rex J. Alexander, "*Helicopter Shopping: What Hospitals & First Responders Need to Know*", (January 2008) Discussing the challenges and hidden dangers of coordinating flight requests across multiple hospital and first responder systems.

Rex J. Alexander, "*The Option Play*", National EMS Pilots Associations AIRNET (January 2007) Commenting on the pilots role in risk management for HEMS operations.

Rex J. Alexander, "*The Illusive Silver Bullet*", National EMS Pilots Associations AIRNET (January 2007) Emphasizing a comprehensive common sense approach based on culture not technology to reducing HEMS accidents.

INDUSTRY INITIATIVES PARTICIPATED IN

- Participant in National Business Aviation Association (NBAA) Light Emitting Diode (LED) Airport/Heliport Lighting Task Group
- Participant in FAA Helicopter Emergency Medical Services (HEMS) Safety Risk Management Panel (SRMP), Washington D.C.
- Participant in Friends and Partners of Aviation Weather (FPAW) at NBAA meeting in Orlando, Florida
- HEMS industry lead coordinator with the FAA, NCAR, NOAA, NWS and AWC for HEMS Weather Safety Summit, Washington, D.C.
- Designer and architect of the International Online Heliport Risk and Liability Assessment Toolkit.
- Lead author of the National EMS Pilots Association (NEMSPA) National Heliport Safety Survey.
- Committee member and contributor on the Model Air Medical State Guidelines Task Force (MASGIT).
- Participant in the Federal Aviation Administration's (FAA) Aviation Weather Research Program (AWRP) National Ceiling and Visibility Analysis (NCV) Product Development Team (PDT), Ceiling and Visibility Analysis (CVA)

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Preliminary Hazards Assessment (PHA) of an algorithm program for automated real-time analysis of current ceiling and visibility conditions across the contiguous United States (CONUS).

- Co-Author National EMS Pilots Association White Paper “Utilization of an Independent Industry Task Force for the Review and Rewrite of the FAA/DOT Heliport Advisory Circular”.
- Co-Author of the National EMS Pilots Association (NEMSPA) review and comments on the Federal Aviation Association HEMS NPRM on HEMS and Part 135 and Part 91 helicopter operations.
- Co-Contributor on National EMS Pilots Association (NEMSPA) En-route Decision Point Program.
- Co-Contributor on National EMS Pilots Association (NEMSPA) No Pressure Initiative/CHAMPS (Cultural Health Assessment and Mitigation Program for Safety).
- Participant in the Federal Aviation Administration (FAA) and Transportation Safety Institute (TSI) course creation, “Heliport Evaluation Course” for FAA and DOT field inspectors.
- Lead designer of the National EMS Pilots Association (NEMSPA) Heliport Safety Sign Campaign.
- Member of the Association of Air Medical Services (AAMS) Safety Management Training Academies planning committee and curriculum development group.
- Participant in the Federal Aviation Administration and Helicopter Association International A021 Operational Specifications Rewrite Efforts.
- National EMS Pilots Association (NEMSPA) board member participant and party member participant in the NTSB four day hearing on Helicopter EMS operations and accident prevention, Washington, D.C.
- Co-Coordinator of Indiana Association of Air Medical Service (INAAMS) state wide education program on the “Dangers of Helicopter Shopping”.