

Rex J Alexander

Curriculum Vitae

Education:

- Transportation Safety Institute Heliprot Evaluation (Prototype) Training course, Oklahoma City, OK, 2010
- United States Army Crew Resource Management Instructor Course, Fort Hood, TX 1990
- United States Army Aeroscout Instructors Course, Fort Rucker, AL 1990
- United States Army Aeroscout Pilot Course, Fort Rucker, AL 1987
- United States Army Rotary Wing Basic Course, Fort Rucker, AL 1986
- United States Army Warrant Officer Basic Course, Fort Rucker, AL 1986
- 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, 1985

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 regulatory research support, heliport design and audits, operations, education, training, safety, litigation support and expert witness services.

Consultant

Apr 2004 – Present: 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.

Helicopter EMS Lead Pilot

August 2011- Present: 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 U.S.

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

- Oversee part-135 air medical helicopter operations at 24 locations in 8 states across the central United States acting as the primary liaison for operations, safety, maintenance and customer relations.

Helicopter EMS Base Manager & Lead Pilot

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

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- 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 fields 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 over seas.
- Attached to the following units of operation: General Support Company, Helicopter Cavalry Squadron, Attack Helicopter Battalion & Target Acquisition and Reconnaissance Platoon.
- School Trained Aeroscout and Aeroscout Instructor Pilot
- Standardization Instructor Pilot
- Specializations: Reconnaissance, Target Acquisition, Close Air Support, Joint Air Attack Coordination and Command and Control.

Aircraft Manufacture Inspector

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

- Structural and component inspector specialized in composite and sheet metal fabrication during construction and assembly for the F-18 Hornet, F-15 Eagle & AV-8B Harrier aircraft.

Credentials and Flight Experience:

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

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Industry Experience:

- Former President, National EMS Pilots Association
- Former President, Indiana Association of Air Medical Services
- Board of Directors, National EMS Pilots Association
- Committee Member, Helipad Committee -- Helicopter Association International
- Committee Member and Secretary, Air Medical Service Committee - Helicopter Association International
- Committee Member, National Fire Protection Association (NFPA) 418 Standards for Heliports.
- Member, International Helicopter Safety Team (IHST) Joint Helicopter Safety Advisory Team (JHSIT) Infrastructure Working Group
- National Lecturer on Air Medical Operations and Safety
- Past Instructor for the National Association of Air Medical Communication Specialists

Consulting Specialties:

- Heliport Safety, Design & Education
- Air Medical Operations
- Emergency Action Plans
- Communications
- HEMS Safety Evaluations
- Regulatory Interpretation
- Government Relations

Educational Seminars Designed and Taught:

- 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
- Air Medical Personal Protective Equipment
- Hospital Staff Helicopter and Heliport Safety

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- Heliport 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 and Clients:

National Air Medical Transport Conference

- 2010 - Fort Lauderdale, Florida
- 2009 - San Jose, California
- 2008 - Minneapolis, Minnesota
- 2007 - Tampa, Florida
- 2005 - Austin, Texas

Indiana Emergency Response Conference

- 2011 - Indianapolis, Indiana
- 2007 - Indianapolis, Indiana
- 2006 - Indianapolis, Indiana
- 2005 - Indianapolis, Indiana

Indiana Hazardous Material Conference

- 2006 - Greenwood, Indiana

Transportation and Safety Institute; Oklahoma City, Oklahoma

- Heliport Design and Safety
- Advanced Accident Investigation for HEMS Operations

National Association of Air Medical Communication Specialists

- Multiple years and locations throughout the United States.

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Client List for Training and Education Programs

- Health-One Transport, Women's Hospital of Texas; Houston, Texas
- LifeLine Critical Care Transport, IU Medical Center; Indianapolis, Indiana
- Lutheran Air, Lutheran Hospital; Fort Wayne, Indiana
- Mayo Clinic; Rochester, Minnesota
- Med Center Air, Carolina Medical Center; Charlotte, North Carolina
- MedFlight of Ohio; Columbus, Ohio
- MedFlight, Memorial Hospital; South Bend, Indiana
- Medic-1; Jonesboro, Arkansas
- Rescue Air; Atlanta, Georgia
- St. Louis Children's Hospital Transport; St. Louis, Missouri
- St. Mary's LifeFlight; Saginaw, Michigan
- Teddy Bear Air, Cook Children's Medical Center; Fort Worth, Texas
- University Air Care Transport; Cincinnati, Ohio

Publications and Articles:

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

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.

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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 HEMS NPRM.

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

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).

Rex J. Alexander, "*Hospital Helipads: Safety, Liability, and Regulatory Issues Hospitals Must Know and Consider*", National EMS Pilots Associations (September 2008) (Web based presentation on helipad design from a regulatory and safety perspective).

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:

- Lead author of the National EMS Pilots Association (NEMSPA) National Heliport Safety Survey.

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- Committee member and contributor on the Model Air Medical State Guidelines Task Force (MASGIT).
- Designer and architect of the National EMS Pilots Association (NEMSPA) "Risk and Liability Assessment Tool for Heliports".
- 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) 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.
- 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".