

Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

MATTHEW ROBINSON, ATP, CFII Aviation Expert

PROFESSIONAL EXPERIENCE

2008 to present **Robson Forensic, Inc.**
Associate
Provide technical investigations, analysis, reports, and testimony toward the resolution of litigation involving:

Air safety and mishap investigations	Crew resource management
Rotary and fixed wing operations	Meteorology
Operational risk management	Underwater salvage investigations
Night vision devices	Non-volatile memory retrieval
Photo documentation	Aviation human factors
Aircraft maintenance	Accident reconstruction
Aircraft technical and procedural publication	Experimental Aircraft
Turbine engine failure	Controlled Flight Into Terrain
Aircraft Fire Analysis	

1995 to Present **United States Marine Corps** August 2011-present
Aircraft Mishap Investigations Instructor, School of Aviation Safety, Pensacola, FL.
Navy and Marine Corps School of Aviation Safety Aircraft Mishap Investigations Instructor. Provides postgraduate education to Aviation Safety Officers in a myriad of facets to include, but not limited to fire analysis, wreckage diagrams, photo-documentation, non-volatile memory, structural analysis, engine failures, underwater salvage, aviation human factors, operational risk management, aeronautical decision making, witness interviews, engineering investigations and wreckage reconstruction. Oversees the aircraft material parts and crash laboratories used in case study exercises.

Operations Officer, Norfolk Va. 2009-2011
Officer in Charge of Marine Helicopter squadron operations, training, and fiscal. Develops and executes an annual training plan for 19 pilots and 32 enlisted aircrew. Applies Operational Risk Management to the daily flight schedule to ensure all operations are appropriately and safely conducted. Oversees the pay and benefits for all reserve squadron personnel. Additionally serving as aircraft commander, instructor, and flight examiner.

Aircraft Accident Investigator, Naval Safety Center 2006-2009
Lead investigator in a multitude of rotary-wing, fixed-wing, and tilt-rotor aviation mishaps. Supervised the Engineering Investigations of material components and engines pertaining to each mishap. Superintended the extraction of non-volatile memory sources including, but not limited to flight data recorders. Underwater salvage aircraft accident investigation; two shallow water and one deep water. Naval Safety Center's mishap investigations division manager. Supervised three civilian aircraft accident investigators

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in support of all Navy and Marine Corps aviation Class Alpha mishaps. Naval Safety Center mishap investigation team coordinator for NASA Space Shuttle Missions.

Aviation Safety Manager 1999-2006

Selected as the Aviation Safety Officer for deployment to the middle-east (WESTPAC 2001). Responsible for the safe operation and procedures of 24 Aircraft and 189 personnel. Primary squadron instructor for Crew Resource Management (CRM), Operational Risk Management (ORM), and mishap investigations. Developed 23 technical reports on a wide variety of mishaps, material deficiencies, component failures and hazards to Naval Aviation assets.

Aviation Quality Assurance Program Manager 2003-2006

Hand selected to direct a quality assurance program designed to improve performance and productivity and decrease deficiencies within aircraft maintenance and ground support equipment. Supervised the development, training, and introduction of new aircraft system upgrades and modifications. Conducted the Operational Test and Evaluation of the aircraft systems and provided feedback to Boeing engineers.

Liaison between Boeing aircraft engineers and Marine aviation assault support squadrons. CH-46E helicopter Flight Instructor, Instrument Examiner, and Crew Resource Management Instructor.

Aircraft Commander/Flight Line Manager 2002-2003

Managed a 41 person team operating and maintaining \$216 million of helicopters and ground support equipment. Set and maintained standards for excellence in aircraft and equipment readiness; ensured the team's ability to provide combat capable aircraft through efficient maintenance practices. Helicopter aircraft commander with 86 combat missions in Iraq, awarded the Naval Aviation Air Medal.

Aircraft Airframes Division Manager 2001-2002

Managed and supervised the 16 Marine, Squadron Airframes Division in support of 12 CH-46E aircraft. Graduated from the Hazardous Material Handler Course and served as the squadron HAZMAT Program Manager. Supervised and Managed the following Naval Aviation Maintenance Program (NAMP) programs: Hydraulic Contamination, Tire/Wheel Safety, Emergency Reclamation, Respiratory and Hearing Protection.

Student Naval Aviator, Helicopter 1997-1998

Advanced Naval Aviation flight training at Whiting Field, Pensacola, Fl. Ground and aircraft instruction in the Bell TH-57 "Sea Ranger". Ground instruction included basic principles of helicopter flight, aircraft systems, flight planning, operating procedures, aeronautical decision making, and instrument procedures. Designated Naval Aviator in May 1998.

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Student Naval Aviator, Fixed Wing 1996-1997
Naval Aviation flight training at Whiting Field, Pensacola, Fl. Ground and aircraft instruction in the Raytheon T-34C "Turbommentor." Ground instruction included basic principles of flight, aircraft systems, flight planning, operating procedures and aeronautical decision making.

United States Marine Corps Basic Officer School 1995-1996
Basic Marine Officer training in Quantico, Va. Coursework included extensive classroom, field, and practical application training on subjects ranging from weapons and tactics to leadership and protocol. Classroom events included platform instruction, tactical decision games (TDGs), sand table exercises (STEXs) and small group discussions. Field events, began with fire team and squad level, moved up to platoon reinforced events. The field events included of realistic blank-fire training, SESAMS (similar to paintball), and live fire ranges.

CREDENTIALS

Airline Transport Pilot, Rotorcraft, Helicopter
FAA Commercial Pilot License, Single Engine, Land
FAA Flight Instructor, Rotorcraft-Helicopter; Instrument Instructor (CFII)
U.S. Naval Flight Instructor and Instrument Evaluator

FLIGHT EXPERIENCE

Bell TH-57 (Bell 206)	R-22
Boeing CH-46E (BV-107)	R-44
T-34C	Schweizer 300 CBI
Cessna 152, 172, 182	Mooney 20F/C
Stearman	

EDUCATION

M.S., Aeronautical Science, Aviation/Aerospace System Safety Specialization, Embry-Riddle Aeronautical University, 2006

Dissertation: *The Correlation of Weather and Pilot Experience to Naval Aviation Controlled Flight into Terrain Mishaps*

B.S., Aerospace Science, Metropolitan State College of Denver, 1995

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Additional Training:

NTSB Photo documentation Series, NTSB Training Center, Ashburn, VA, March 2008
Aircraft Maintenance Investigation, Southern California Safety Institute, Inc. August, 2008

Jet Engine Mishap Investigation Course, Sheppard AFB, TX, March 2006

Crew Resource Management Instructional Model Manager Course, Naval Aviation Schools Command, Pensacola, FL, January 2005

Hazardous Waste Handler's Course, 2001

Aviation Safety Officer Course, Naval Postgraduate School, Monterey, CA, 1999

Designated Naval Aviator, Naval Flight School, Pensacola, FL, 1996

PROFESSIONAL MEMBERSHIPS

National Association of Fire Investigators

International Society of Air Safety Investigators, Full Member

Lawyer-Pilots Bar Association

Experimental Aircraft Association

Aircraft Owners and Pilots Association

National Transportation Safety Board Bar Association

AWARDS and HONORS

Navy and Marine Corps Air Medal

Successfully completed 86 combat missions within Iraq

Navy Achievement Medal (twice)

Served as the Aviation Safety Officer, HMM-268 Marine Corps Air Station Camp Pendleton, CA

Served as the CH-46E Naval Aviation Training and Procedures standardization program manager and Quality Assurance Officer in Charge, HMM(T)-164, Marine Corps Air Station, Camp Pendleton, CA

2,000 mishap-free flight hours

The Boeing Aircraft Company

INVITED TALKS

Night Vision Devices in General Aviation

Lawyer Pilots Bar Association, Summer meeting 2010, Nemaocolin, PA

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Aviation Accident Investigations and Operational Risk Management
Costa Rica Aviation Police, San Juan, Costa Rica. August 2010

Aviation Accident Investigations and Operational Risk Management
Colombian Naval Aviation Safety Symposium, Covenas, Colombia. August 2010

Night Vision Devices and the Helicopter EMS Industry, General Aviation Air Safety
Investigators Workshop 2007

Principles and Techniques of Aviation Accident Investigations, Air Force of Ghana Air
Safety Symposium, 2007

PUBLICATIONS

Robinson, M.G., *Controlled Flight Into Terrain; The Significance and The Prevention*,
Approach Magazine (Spring 2009).

Clark, D.J., Hines, T., Robinson, M.G., Vallaster, J.R., *OPNAV 3750 Quick Series
Guide to Investigating Naval Aviation Mishaps*. Pocket flip-book and reference to
assist Naval Aviation units in the Naval Aviation safety program requirements and
procedures. (June 2007)

Robinson, M.G., *Night Vision Device Use In The Helicopter Emergency Medical
Service Industry*, Proceedings of the General Air Safety Investigator's Workshop,
Wichita, KS, September, 2007.

Robinson, M.G., *Investigating Aircraft Mishaps*, Approach Magazine, Special
Approach Issue, October 2006.

CH-46E Naval Air Training And Operating Procedures Standardization (NATOPS).
Chief Editor and author of the CH-46E NATOPS flight manual. Supervised the
refinement of previous versions of the manual to incorporate changes to technical and
procedural issues from system engineers and the fleet. (February 2004- December
2005).