

**Ronald W. Diedrichs, Captain**  
**Senior Aerospace Human Factors Specialist**  
**Augspurger Komm Engineering, Inc.**  
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## **EDUCATION**

B.S. Microbiology, Colorado State University, Ft. Collins, Colorado, 1968  
M.B.A. Concentration in Human Resources Management, Gonzaga University, Spokane, Washington, 1983

## **PRINCIPLE AREAS OF RESEARCH, EXPERTISE OR CONSULTING**

Expertise: Airline Transport Pilot (ATP), Aerospace Physiology, Aerospace Medicine, Human Factors Engineering, Man/Machine Systems Design & Integration, Technical Product Risk Analysis, Loss Prevention Control & Engineering

## **CERTIFICATIONS/REGISTRATION**

1982 Board Certified in Aerospace Physiology by Exam. Aerospace Medical Association  
1974 Security Clearance: Top Secret, SBI 6/10/74

## **EXPERIENCE**

2003- Arizona State University, Faculty Instructor: Safety, Accident Investigation, Aerospace Physiology & Human Factors  
2001- Aerospace Human Factors Consulting LLC (An Arizona Corp), Scottsdale, Arizona  
1991-2003 Honeywell International Aerospace Electronics, Phoenix, Arizona  
1989-1991 Transworld Airlines Pilot, Domicile JFK, New York  
1968-1989 United States Air Force (Lt. Colonel Retired)

## **MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES**

International Society of Air Safety Investigators (ISASI), Full Member  
Society of Automotive Engineers, Arizona Section, Past-Director  
Aerospace Medical Assn. (AsMA) Associate Fellow  
Aerospace Human Factors Association, Charter Member  
Human Factors Society, Full Member  
Airline Pilots Association (ALPA 10 Year Member)  
Order of Daedalians, Life Member #7904  
Red River Valley Fighter Pilots Association (River Rats), Member, 76 sorties North Vietnam RP6  
Editorial Board, Aviation Space & Environmental Medicine  
Contributing author, Aeromedical and Training Digest  
Consultant & Member SAE, A-10; Oxygen Equipment Standards Committee  
Honeywell Corporation/Representative Society of Automotive Engineers (SAE)

## **AWARDS & TRAINING**

Graduate USC Safety & Systems Management, Human Factors, Accident Investigation, Cockpit Resource Management (CRM)  
Chief Investigator and Inspector compliance and quality, for the office of the USAF Inspector General 1979-1989  
International Society of Air Safety Investigators (ISASI), Member 1997  
Graduate School of Aerospace Medicine, Brooks AFB, TX (Aerospace Physiology & Clinical Hyperbaric Medicine)  
Honeywell "Technical Services Citation" award winner for 1996  
Honeywell "Lund Award Nominee" 1998  
Daedalian #7904, Life Member  
TWA 727 Pilot: 1989 – 1991  
Instructor: Williams AFB, Arizona 1983 to 1989 on retirement: T-38: 1983-1989; KC-135 Pilot: 1969-1983  
Chief of Ground and Flight Safety / 916th AREFSq, Travis AFB, CA. 1971-1973.  
Graduate of the USAF School of Aerospace Medicine, Brooks AFB TX, 1977  
Graduate of the USAF Life Support Officers Course Schools Fairchild AFB, Washington, 1981  
Graduate of the USAF Life and Accident Investigation, Schools Fairchild AFB, Washington, 1981  
Taught Aerospace Physiology and Life Support to 43,000 USAF and Allied Pilots from around the world  
Taught the Psychological aspects of the Aviator which predispose one to incidents, accidents, and other Failure modes. Member, Wing Accident Investigation Team and Inspector General Team (IG) 1976-1989 (numerous assignments)  
Graduate of USC Safety and Systems Management Contracted Course: USAF Human Factors and Accident Investigation, 1978

## **PROFESSIONAL SPECIALTY COURSES**

2001 Six Sigma Green Belt Certification, Honeywell  
2000 Communications & Product Liability, Honeywell  
1997 Graduate of USC Safety and Systems Management Courses. Entire Certificate Program to include Accident Investigation, Human Factors in Aviation Safety, Developing a Safety Program, Developing a CRM Program, Photography, Legal Aspects of Aviation Safety, and The Role of the Technical Witness in Litigation. 1997 Practice investigation of Piper Aztec Accident.  
1996 Checked out in the A340, Singapore  
1991 Type Rating in A320, Family, Northwest Airlines  
1984 Human Factors, Trinity University; San Antonio, Texas  
1982 Human Factors, Institute of Safety & System Management, USC  
1982 Life Support Officer's School, Fairchild AFB, Washington  
1981 Air Command & Staff School by Correspondence 1978: Physiological Training Officers' CRS., Brooks AFB, Texas  
1979 Graduate School of Aerospace Medicine, Brooks AFB, Texas (Aerospace Physiology & Clinical Hyperbaric Medicine)  
1971 Avionics Munitions Staff Officer CRS. Carswell AFB, Texas  
1970 Undergraduate Pilot Training, Randolph AFB, Texas

## **FLIGHT RATINGS**

Airline Transport Pilot	Certificate No. 1906509
MEL, SEL, ATP B-707, A320	Class 1 Medical, No Limitations
Flight Engineer Turbojet	Certificate No. 523667545

## **ACCIDENT INVESTIGATIONS**

1971 KC135 Crash, Torrejon, Spain, Party to Accident, Crewmember, Co-Pilot

1986 T-37 Accident Williams AFB, Arizona "Fuel Starvation"

1987 F-5 Accident Williams AFB, Arizona "Fuel Starvation"

1988 F-5 Accident Williams AFB, Arizona "Suicide"

1991 Honeywell Aviation Safety Investigation Team (ASIT), "Developed Response, Biohazard and the Training Plan"

1992 Burlington International / Air Transport International Flight 805, "Spatial Disorientation"

1994 USAIR 427 unexplained Roll and loss of B737 aircraft, "Rudder Activation"

1994 USAIR 1016 Charlotte, North Carolina, "Windshear"

1996 Aeroperu 603 B757 aircraft crash evaluated ADIRU, "Pilot Static System Taped Over"

1996 TWA 800 - Boeing 747 New York City, "Fuel Tank"

1996 Worked with the NTSB on the American Airlines Flight 965, Cali / Columbia, "Controlled Flight into Terrain" (CFIT)

1997 Formal "Party Status" by John Goglia of the NTSB

1997 Fed-Ex Md-11 - Tail #611 (N611FE) crash at Newark, New Jersey, "Inconclusive"

1998 Swissair 111: MD11 - The Honeywell Investigator In Charge, Honeywell Aviation Safety Investigation Team (ASIT), "Electrical Fire"

1999 Designated by NTSB as a Honeywell "Go Team" member.