James Harry Hartman, III, PhD Aviation, Military Pilot Flight Simulation, Data Analytics, Risk Analysis, and Higher Education Expert
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OBJECTIVE

A seasoned academic and aviation industry professional, with a unique blend of teaching experience, industry knowledge, and a strong background in human factors engineering and quality control analysis. Seeking to leverage extensive academic credentials and a proven history of leadership, research, strategic planning, and partnerships in the position.

EDUCATION

- Ph.D. Psychology (2024) Liberty University
- Ph.D. Aviation (2020) Embry Riddle Aeronautical University
- M.S. Technology/Aviation Human Factors (2001) Arizona State University
- B.S. Aviation Management/Professional Flight Training (2007) Arizona State University
- B.A. Germanic and Slavic Languages (1999) Brigham Young University

PROFESSIONAL HIGHER EDUCATION EXPERIENCE

Embry Riddle Aeronautical University, Daytona Beach, FL (2023-Present) Faculty Associate, School of Aviation

- Developed and taught graduate-level courses in Aviation Safety Data Management and Analysis.
- Leveraged industry insights to blend theoretical instruction with case-based learning, preparing students for the complexities of aviation industry roles.

Arizona State University, Mesa, AZ (2007-Present) Faculty Associate, Fulton School of Engineering

- Developed comprehensive coursework in Safety Management Systems, Aviation Meteorology, and Aviation Safety and Human Factors facilitating cross-disciplinary learning experiences for both graduate and undergraduate cohorts.
- Provided statistical analysis consultation for masters research, enhancing the quality of graduate student publications.
- Leveraged industry insights to blend theoretical instruction with case-based learning, preparing students for the complexities of aviation industry roles.

INDUSTRY EXPERIENCE

Federal Aviation Administration, Phoenix, AZ (2014-Present) Management and Program Analyst, Quality Control Specialist, TCAB-1-P50

- Spearheaded district-level project management initiatives and contributed to significant

improvements in air traffic safety standards through meticulous quality control analysis.

- Advanced the quality assurance framework, delivering empirical insights that shaped safety protocols at one of the nation's busiest air traffic control facilities.
- Spearheaded interdisciplinary research teams, translating performance data into actionable intelligence to bolster air safety nationally.
- Established effective safety communication and training collaboration with external partners, such as the Phoenix Airport Fire Department and Arizona State University.

Federal Aviation Administration, Washington, DC (2008-2014) Management and Program Analyst, National Ceiling and Visibility Program Manager, ANG-C6

- Oversaw the National Ceiling and Visibility program, boosting the reliability of weather products for the National Airspace System.
- Pivotal in the launch and optimization of the Helicopter Emergency Medical Services (HEMS) Tool, fostering enhanced decision-making safety protocols for HEMS pilots.

Lockheed Martin Technology Services, Mesa, AZ (2000-2004) Human Factors Engineer

- Led ground-breaking research projects in close partnership with military aviation units, enhancing training efficacy and pilot performance through innovative human factors engineering.
- Crafted influential technical presentations and strategic development initiatives that significantly advanced simulation training methodologies for military aviation.

United States Department of Homeland Security, Transportation Security Administration, Phoenix, AZ (2004-2008) Lead Transportation Security Officer

- Managed and executed critical security operations, ensuring robust screening mechanisms at Phoenix Sky Harbor International Airport.
- Demonstrated exceptional leadership skills in coaching and developing security screening staff and addressing complex operational challenges.

City of Phoenix Aviation Department, Phoenix, AZ (2007-2008) Intern, Airside and Landside Operations Engineering Research

- Pioneered safety protocols and operational checklists that significantly increased airside and landside safety during periods of intensive construction and daily operations.

Qualifications & Achievements:

- Strong history of leadership and personnel management in various capacities, including professor, supervisory, project management, and administrative roles.
- Extensive industry experience in aviation both in the federal service and private sector, contributing to elevated safety standards and operational excellence.

- Proven mentorship and support of students transitioning from academia to industry.
- Demonstrated commitment to diversity, equity, and inclusion, promoting these values within the aviation community.
- Successful development and participation in fundraising and alumni engagement initiatives.

Professional Affiliations:

- Friends and Partners in Aviation Weather (FPAW), since 2008
- Aircraft Owners and Pilots Association (AOPA), since 2001
- FAA Pilot Wings Proficiency Program, since 2001
- Embry Riddle Aeronautical University Alumni Association, since 2020
- Arizona State University Fulton School of Engineering Aviation Programs Alumni Association, since 2001
- Brigham Young University Alumni Association, since 1999

Special Awards:

- Outstanding Service Award, FAA Aviation Weather Office, for project management of the National Ceiling and Visibility Program, 2008-2014
- Appreciation Award, Arizona State University, for excellence in student mentoring, 2007-present
- Multiple cash and time off awards, Federal Aviation Administration, Aviation Weather Office, Washington D.C. (ANG-C6) and Airport Traffic Control Tower/Terminal Radar Approach Control Phoenix, Arizona (TCAB-1) facilities, for project management and quality control work

Certifications:

- Federal Aviation Administration, Certified Pilot (fixed-wing & rotorcraft flight training)
- Federal Aviation Administration, Contracting Officer's Technical Representative (COTR)
- Federal Aviation Administration, Project Management Professional (PMP) federal government training
- Lockheed Martin Technology Services, Night Vision Goggle Instructor Course
- Ira. A Fulton School of Engineering (Aviation Programs), High Altitude Chamber Certification

Publications & Presentations:

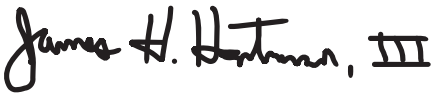
- Authored and co-authored a number of technical and research papers; presented findings at international conferences and seminars.

Continuing Education:

- Engaged in continuous professional development in areas including Agile Project Management, Risk Management, and Advanced Data Analysis for Six Sigma.

In conclusion, my fusion of academic excellence, industry acumen, quality control and risk analysis, and administrative experience underscores my readiness to take on the position.

Sincerely,



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PROFESSIONAL HIGHER EDUCATION EXPERIENCE

Embry Riddle Aeronautical University, Daytona Beach, FL (2023-Present)

FACULTY ASSOCIATE in the School of Aviation teaching courses in Aviation Safety Data Management and Analysis, Worldwide Campus at the graduate level

Key achievements:

- Developed courses in Aviation Safety Data Management and Analysis (online)
- Teach masters courses in Aviation Safety Data Management and Analysis (online)
- Serve on graduate committees at departmental level
- Statistical analysis expertise resulted in quality masters-level research studies for graduate student publications by ensuring correct statistical tests were selected, completed, and reported for approved research question(s)

Arizona State University, Mesa, AZ (2007-Present)

FACULTY ASSOCIATE in the Fulton School of Engineering, developing and teaching courses in Safety Management Systems (SMS) at the master's level and aviation meteorology at the undergraduate level

Key achievements:

- Developed courses in Safety Management Systems (online), Aviation Meteorology (classroom/online), and Aviation Safety and Human Factors (classroom/online)

- Teach masters courses in Safety Management Systems
- Teach undergraduate courses in Aviation Meteorology
- Serve on graduate committees at departmental level
- Statistical analysis expertise resulted in quality masters-level research studies for graduate student publications by ensuring correct statistical tests were selected, completed, and reported for approved research question(s)

ADDITIONAL AVIATION EXPERIENCE

Lockheed Martin Technology Services, Mesa, AZ (2000-2004)

HUMAN FACTORS ENGINEER at the United States Air Force Research Laboratory at the former Williams Air Force Base, Mesa Arizona. Initiated, designed, developed, executed, and implemented engineering research projects which required regular interaction with F-16 Fighter Pilots and Airborne Warning and Control System (AWACS) personnel.

Key achievements:

- Assisted in the development of subject matter expert F-16 pilot objective performance measures used to determine degree of learning that occurs in the F-16 flight simulation training environment
- Assisted in an ongoing F-16 pilot and AWACS study to collect and analyze pilot proximity data using the Pathfinder Mental Modeling Assessment Software utilizing Excel and statistical package for the social sciences (SPSS) software in the F-16 flight simulation training environment

- Completed Phase I transcription of F-16 Pilot briefings for the Brief and Debrief Analysis Project for the

F-16 flight simulation training environment.

- Designed a Microsoft Power Point presentation on the performance effectiveness tracking software (PETS) for the F-16 flight simulation training environment
- Statistical analysis expertise improved assessment of objective performance measures for degree of learning for military pilots in the flight simulation training environment through correct application of pathfinder associative networks modeling to determine flight simulator performance effectiveness

United States Department of Homeland Security Transportation Security Administration, Phoenix, AZ (2004-2008)

TRANSPORTATION SECURITY OFFICER, LEAD TRANSPORTATION SECURITY OFFICER, ACTING SUPERVISORY TRANSPORTATION SECURITY OFFICER at the Phoenix Arizona Sky Harbor International Airport. Handled personnel issues, managed screening operations and staff performance, maintained equipment and documentation, conducted screening operations, coordinated, and collaborated across functions, coached, and developed others, conflict management and customer service.

Key achievements:

- Extra Mile Certificate for excellent performance of screening operations (2005)
- Letter of Commendation for assuming the duties of a Supervisory Transportation Security Officer (2005)

- Leadership expertise resulted in increased safety at terminal security checkpoints at the Sky Harbor International Airport through professional monitoring of passenger screening process and guidance given to transportation security officers in conducting correct passenger pat-downs, x-ray of carry-on items, and review of boarding passes and documentation

City of Phoenix Aviation Department, Phoenix, AZ (2007-2008)

INTERN for the City of Phoenix Aviation Department at the Phoenix Sky Harbor International Airport. Participated in engineering research activities for airside and landside operations

Key achievements:

- Designed and implemented a checklist for operational safety during construction based on Advisory Circular(AC) 150/5370-2E (Operational Safety on Airports during Construction)
- Designed, analyzed, and implemented safety measures through development of a runway "Hot Spot" and runway incursion/excursion database of all historical data
- Increased operational safety through various projects including the development and circulation of airport construction operational safety checklist and runway hotspot diagram to applicable City of Phoenix Aviation Department personnel

Federal Aviation Administration, Washington, DC (2008-2014)

MANAGEMENT AND PROGRAM ANALYST. NATIONAL CEILING AND VISBILITY PROGRAM MANAGER (FV-0343-H) for the Aviation Weather Office, ANG-C6, at the Washington DC Portals II Location. Development of the National Ceiling and Visibility weather products for the National Airspace System

Key achievements:

- Led and participated in teams providing a variety of activities for the Aviation Weather Division, ANG-C6
- Supported the analysis and coordination required to develop plans and schedules, independent government cost estimates associated with defined work breakdown structure defined by the project plan
- Coordinated the development and tracking of the detailed financial expenditures for the program office
- Provided support to the aviation weather product operational suitability evaluation/analysis, Concept and Requirements Definition (CRD) and Investment Analysis (IA) processes for NextGen weather operational improvements utilizing requirements analyses including function, task, and cognitive analyses.
- Developed processes, spend plans, schedules, staffing and milestones for NextGen weather efforts, developed agreements with other FAA organizations and with Government and non-Government agencies, prepared reports and contractual documents and developed and presented to various groups including management teams, work groups, Government, and non-Government stakeholders.
- Conducted usability testing through user focus group surveys and utilized Helicopter Emergency Medical Services (HEMS) customer feedback to provide upgrades to the HEMS Software Tool through the development of the FY2013-14 HEMS project plan to facilitate incorporation of HEMS user requested upgrades on the Experimental Aviation Digital Data Service (ADDS) website.

- Utilized resources to improve Aviation Weather Division (AWD) ANG-C6 National Ceiling and Visibility (NCV) software product, process, and service through coordination with AWD ANG-C6 Management to redirect CV research and development weather priorities for the Alaska Ceiling and Visibility Analysis (AK-CVA) software product collaboration with the Alaska Aviation Weather Unit (AAWU) and development of the FY2013-14 AK- CVA project plan
- Facilitated co-workers, supervisors, managers, and customers enhancement of the Federal Plan for Meteorological Services and Supporting Research annual publication through coordination of multiple agency updates to the Office of the Federal Coordinator for Meteorology (OFCM) annual publications to ensure accuracy of Federal Aviation Administration weather program and budgetary information to the public in response to Law 87-843 to coordinate federal meteorological activities across departments and agencies
- Increased flight safety in the National Airspace System (NAS) by improving the national ceiling and visibility sensor network for use by general and commercial aviation pilots for flight planning and in-flight weather decision-making including the HEMS pilot community through funding the development of the existing ceiling and visibility sensor network and incorporation of available camera networks throughout the National Airspace System

Federal Aviation Administration, Phoenix, AZ (2014-Present)

MANAGEMENT AND PROGRAM ANALYST. QUALITY CONTROL SPECIALIST (FV-0343-G) for the Quality Control Group at the Sky Harbor International Airport collocated Airport Traffic Control Tower (ATCT) and Terminal Radar Approach Control (TRACON), TCAB1-P50. Conducting quality control analyses through data collection of

pilot and air traffic controller incident and accident data, identification, and analysis of primary and secondary factors (including contextual factors), development of corrective action plans (CAPs), documentation of findings and CAP, ensuring data integrity, and producing safety reports on the identified problems

Key achievements:

- Development and implementation of Microsoft BI Power Dashboard for the TCAB-1 district facilities risk management for enhanced management review of incident and accident data for increased accuracy in the development and implementation of corrective actions plans (CAPs) using Business Objects Staging data.
- Conduct Human Factors and risk assessments in the Albuquerque District (ZAB) (i.e., completed risk assessment for use of Line Up And Wait (LUAW) and the arrival departure window (ADW) at Las Vegas McCarran International Airport (LAS)
- Identify systemic issues using advanced data analysis techniques such as text mining, word cloud, word frequency, hierarchical cluster analysis, statistical significance, correlations, regression analysis, and other parametric and non-parametric statistics to determine how accident/incident causal factors are manifest in the Business Objects, Falcon, Comprehensive Electronic Data Analysis and Reporting (CEDAR), National Transportation Safety Board (NTSB) Case Analysis and Reporting Online (Carol), National Aeronautics and Space Administration (NASA) Aviation Safety Reporting System (ASRS), Federal Aviation Administration (FAA) Aviation Safety Information and Sharing (ASIAS), and Bureau of Transportation Statistics (BTS) data

- Provide critical information to both the PHX Airport Traffic Control Tower (ATCT) and P50 Terminal Radar Approach Control (TRACON) combined facilities for their Operations Manager Leadership Development Program (OMLDP) projects.
- Develop and utilize key performance indicators (KPIs) for air traffic control and runway safety risk analysis using established taxonomies (i.e., AIRTRACS, Runway, and Air Traffic Organization (ATO) Human Performance Taxonomies).
- Produce and deliver high level briefings for the District Leadership team and the Mission Support Procedures leadership team to relay significant safety related information pertinent to on-going operations in the National Airspace System (NAS). These briefings provide the leadership teams appropriate statistical data to aid them in making essential decisions in the discontinuance of certain operations.
- Provide assessments, analysis, and conclusions related to safety issues within the operations of TCAB district facilities.
- Provide information to several different groups, management teams, and operational teams by carefully preparing the written documents and presentation material in clear, concise, and understandable language within established time limits.
- Utilize various verbal and written communication methods.
- Deliver team briefings, power point presentations, and analysis of operational data during meetings with outside entities such as the Phoenix Airport Fire Department, employees and managers of other support departments, operational employees, the Phoenix ATCT and Phoenix TRACON partners at Arizona State University including graduate and undergraduate students and professors.

- Utilize project management body of knowledge (PMBOK), knowledge areas and process groups, knowledge, skills, and abilities from previous positions in the FAA when developing TCAB District Quality Control (QC) requirements and data management.
- Participate on the Local Safety Council (LSC) for Phoenix TRACON and Phoenix ATCT
- Produce multiple data sets using skills in data collection and statistical analysis to advise managers of safety gaps and statistically significant areas of operation requiring attention and action for change.
- Regularly participate in staff meetings and provide safety reports related to collected TCAB quality control data each month.
- Provide instructions in obtaining weather and safety research data from numerous sources not accessible through the Agency to several different facilities, support specialists, and managers.
- Introduce managers and specialists to in depth Safety Management System (SMS) processes including information to aid in identifying Air Traffic Control Systemic Risk Pathways through Service Integrity Risk Analysis
- Provide expertise in identifying human factor issues during air traffic events.
- Play an integral role in organizing the QC processes and actively assist other team members with software, hardware, and computer programming issues.
- Promote the team in progressing with changing requirements and lead the District in acquiring global knowledge and techniques used in the aviation industry around the world.
- Knowledge in numerous areas of the aviation industry including piloting, weather, human factors, SMS, and statistical analysis.

- Provide numerous avenues to aid individuals in selecting a path in forward movement to meet Agency goals.
- Use personal assets by fostering positive working relationships with individuals to aid them in their advancement.
- Work diligently in building strong working relationships with all employees.
- Raise matters requiring attention and never fail to offer potential solutions that are well prepared and provided in easily adaptable and understandable processes.
- Continually transform the monthly safety reports into a strategic safety data reporting tool to aid the management team in developing tactical plans for identifying and correcting non-compliance within the collated PHX ATCT and P50 TRACON facilities.
- Continually notify management of any identified systemic issues and provide recommendations to correct identified issues.
- Offered a standard safety initiative used in other industries to aid PHX ATCT and P50 TRACON in identifying causal factors of non-compliance; a well-designed survey provided to employees to help in the identification of drift and non-compliance.
- Accepted the administrative responsibility involved with the Air Traffic Control program established with Arizona State University for internships at the PHX ATCT and P50 TRACON facilities.
- Increased flight safety in the National Airspace System (NAS) through identification of new areas of risk not previously known providing critical decision making information to the TCAB management team in determining strategic mitigations for identified safety gaps; an example includes analysis of the use of Line Up And Wait (LUAW) and the Arrival Departure Window (ADW) tool and identification of risk related to crossing runway departures and arrivals

that had not been previously known, including cultural drift, providing critical decision making information for the TCAB District in determining strategic mitigations for the safety gaps identified with LUAW and ADW tool

- Increased flight safety in the NAS through identification of the need for frequent recurrent training as controller proficiency has been found to decrease in as little as two months after instruction.
- Provided subject matter expertise in the analysis and publication of an agency internal study and executive study summary for agency executive management in Washington DC on Aviation English Language Proficiency of foreign pilots operating aircraft in the NAS using an exploratory assessment of survey data collected by the Runway Safety Group (AJI).
- Provided subject matter expertise on collaborative working groups (CWGs) for the TCAB-1 district facilities.
- Provided subject matter expertise in the analysis and publication of an agency internal study on the line up and wait (LUAW) procedures at the LAS airport traffic control tower (ATCT).
- Provided subject matter expertise in the analysis and publication of an agency internal study on the effectiveness of flight safety videos for the Runway Safety Group (AJI).
- Provided subject matter expertise in the analysis and publication of an agency internal study on the effectiveness of the yearly flight safety performance plans publications for the Runway Safety Group (AJI).
- Provided subject matter expertise in the analysis of wrong surface landings in the NAS for the Runway Safety Group (AJI).

- Developed a standardized taxonomy classification system for the assessment of mandatory occurrence report (MOR) data using agency Business Objects staging data.

CONTINUING EDUCATION

- Phishing Education and Awareness (2022, August) presented by the Federal Aviation
- FAA Standards of Conduct (2022, August) presented by the Federal Aviation Administration (eLMS). Washington, DC
- The FAA Insider Threat Detection Mitigation Program (2022, August) presented by the Federal Aviation Administration (eLMS). Washington, DC
- Overcoming Your Own Unconscious Biases (2022, July) presented by the Federal Aviation Administration (eLMS). Washington, DC
- FY22 Information Security and Privacy Awareness Training (SAT) (2022, May) presented by the Federal Aviation Administration (eLMS). Washington, DC
- Aviation Risk Identification and Assessment (ARIA) Briefing (2020, October) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Unmanned Aircraft Systems (UAS) (2020, March) presented by the Federal Aviation Administration,

electronic Learning Management System (eLMS). Washington, DC

- Integrated Safety Training (IST) Workshop (2018, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- NextGen Advanced Navigation (2017, May) presented by the Federal Aviation Administration, electronic

Learning Management System (eLMS). Washington, DC

- Quality Assurance/Quality Control Specialist Course (2017, May) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- STARS AT Coach Scenario Generation Training (2017, April) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Aircraft Performance (2016, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Misapplied Visual Separation, TRACON (2016, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Opposite Direction Operations (2016, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Parachute Operations (2016, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Search and Rescue Operations (2016, February) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Aeronautical Information System Replacement (AISR) for METARs (2015, December) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC

- Time Based Flow Management (TBFM) Terminal Air Traffic Control Specialist (2015, December) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Special Visual Flight Rules (SVFR) (2015, June) presented by the Federal Aviation Administration,

electronic Learning Management System (eLMS). Washington, DC

- Weather Dissemination (2015, June) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Tower Applied Visual Separation (2015, June) presented by the Federal Aviation Administration,

electronic Learning Management System (eLMS). Washington, DC

- Initial Departure Separation (2015, June) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC
- Vectors below the Minimum Vectoring Altitude (MVA)/Minimum IFR Altitude (MIA) (2015, June) presented.

by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC

- Weather Deviations into Special Activity Airspace (2015, June) presented by the Federal Aviation

Administration, electronic Learning Management System (eLMS). Washington, DC

- Safety Alerts and Traffic Advisories (2014, December) presented by the Federal Aviation Administration, electronic Learning Management System (eLMS). Washington, DC

PUBLISHED WORKS

- Hartman, J. (2024). An Exploratory Study of the Development, Forward Flow, Mental Illness, and Task Performance Factors in Air Traffic Controllers and Aircraft Pilots [Doctoral dissertation, Liberty University]. Digital Commons, Be press.
- Hartman, J. (2023). A Mixed Methods Analysis of a Certified Professional Controller Survey on Foreign Pilots' Aviation English Proficiency [United States Department of Transportation, Federal Aviation Administration, Air Traffic Organization, Quality Control, TCAB-1, P50].
- Hartman, J. (2020). An Exploratory Study of General Aviation Visual to Instrument Meteorological Condition Contextual Factors. (Order No. 561) [Doctoral dissertation, Embry Riddle Aeronautical University]. Digital Commons, Be press. https://commons.erau.edu/edt/561
- Hartman, J. (2014). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Hartman, J. (2013). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Hartman, J. (2013). National Center for Atmospheric Research. FAA Perspective on the Helicopter Emergency Medical Services (HEMS) Flightpath Tool. https://ral.ucar.edu/events/2013/helicopter-emergency-medical-service-hems-weather-summit

- Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool History, Status, and Future. Adobe Acrobat Download https://ral.ucar.edu/sites/default/files/docs//201afaa-jim-hartman-hems-tool-history-status-future.pdf
- Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool History, Status, and Future. Microsoft Power Point Presentation. https://ral.ucar.edu/sites/default/files/docs//201afaa-jim-hartman-hems-tool-history-status-future.pptx
- Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool Path to Operations. Adobe Acrobat Download https://ral.ucar.edu/sites/default/files/docs//201bfaa-jim-hartman-hems-tool-path-operations.pdf
- Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool Path to Operations. Power Point Presentation. https://ral.ucar.edu/sites/default/files/docs//201bfaa-jim-hartman-hems-tool-path-operations.pptx
- Hartman, J. (2012). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Hartman, J. (2011). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal

Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

- Hartman, J. (2010). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Hartman, J. (2009). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Hartman, J. (2008). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html
- Pedersen, H., Gesell, L., Pack, W., Cooke, N. & Hartman, J. (2007). Human Factors Issues in UAS Training. 2007 International Symposium on Aviation Psychology, 1(1), 518-523. https://corescholar.libraries.wright.edu/cgi/viewcontent.cgi?article=1089&context=isap_2007
- Hartman, J. (2001). Cluster analysis of pilots' views of complications arising in flight [master's thesis, Arizona State University]. https://www.dropbox.com/s/po8675d00pkpuds/Cluster-Analysis-of-Pilots-Views-of-Complications-Arising-In-Flight.pdf?dl=0

SERVICE

- Outstanding service award given by the FAA Aviation Weather Office, ANG-C6 for outstanding project management support of the National Ceiling and Visibility Program (2014)
- Federal Aviation Administration Combined Federal Campaign, Aviation Weather Office, ANG- C6 Office Representative, Washington, D.C. (2008-2014)
- Outstanding service award given by the Arizona State University for excellence in student mentoring (2001)

PROFESSIONAL AFFILIATIONS

- Friends and Partners in Aviation Weather (FPAW) (2008-present)
- Aircraft Owners and Pilots Association (2001 – present)
- FAA Pilot Wings Proficiency Program (2001 – Present)
- Embry Riddle Aeronautical University Alumni Association (2020 – Present)
- Arizona State University Fulton School of Engineering Aviation Programs Alumni Association (2001 – Present)
- Brigham Young University Alumni Association (1999 – Present)
- Liberty University School of Psychology Dean's List 4.0 Grade Point Average (2021)

SPECIAL AWARDS (selected)

- On-the-Spot Certificate awarded by the Federal Aviation Administration NextGen and Operations Planning group for outstanding support and superior service to the ANG-C6 Aviation Weather Group, Washington, D.C, 2010 (2014)
- Cash award given by the Federal Aviation Administration ANG-C6 Aviation Weather Office for outstanding support of the National Ceiling and Visibility program (2014)

- Awarded for best research proposal at Embry Riddle Aeronautical University DAV 703 doctoral residency seminar, Cross database analysis to identify relationships between General Aviation Visual Meteorological Conditions into Instrument Meteorological Condition incidents and accidents (2015)

PROFESSIONAL PRESENTATIONS

- Hartman, J. (November 2020). An Exploratory Study of General Aviation Visual to Instrument Meteorological Condition Contextual Factors, Embry Riddle Aeronautical University, Daytona Beach, FL. https://www.dropbox.com/s/2zrn16gm656t9h4/James-Hartman-Dissertation-Defense-111620.mp4?dl=0
- Hartman, J. (December 2013). Helicopter Emergency Medical Services (HEMS) Tool - Path to Operations. Federal Aviation Administration, Aviation Weather Division, ANG-C6, Aviation Weather Research Program, Washington, D.C. https://slideplayer.com/slide/9313769/
- Hartman, J., Sims, C., Walden, S. (August 2011). Terminal Aerodrome Forecasts (TAFs) in the Next Generation Air Transportation System (NextGen) Era. American Meteorological Society (AMS), Los Angeles, CA. https://ams.confex.com/ams/14Meso15ARAM/webprogram/Paper191101.html

CERTIFICATIONS

- Federal Aviation Administration: Pilot Certificate #3513437 (Fixed-wing and Rotorcraft flight training at the Arizona Flight Training Center (a Lufthansa Company) and Quantum Helicopters (R22 Helicopters) at the Phoenix Mesa Gateway and Chandler Airports, Mesa Arizona.

- Contracting Officer's Technical Representative (COTR) certification by the Federal Aviation Administration, Aviation Weather Office, National Ceiling and Visibility Program Manager (ANG-C6), Washington D.C.
- Project Management Professional (PMP) training by the Federal Aviation Administration, Aviation Weather Office, National Ceiling and Visibility Program Manager (ANG-C6), Washington D.C.
- Night Vision Goggle Instructor Course by Lockheed Martin Technology Services for the United States Air Force Flight Simulation Research Laboratory, Human Factors Researcher, Mesa Arizona.
- High Altitude Chamber, Flight Physiology by Arizona State University, Ira A Fulton School of Engineering Aviation Programs, Professional Flight Training, Mesa Arizona
- Transportation Security Officer (TSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona
- Lead Transportation Security Officer (LTSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona
- Acting Supervisory Transportation Security Officer (STSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona
- Adjunct Faculty Member by Arizona State University, Ira A Fulton School of Engineering Aviation Programs, Mesa Arizona

EDUCATION

- Ph.D. PSYCHOLOGY, Liberty University, 2025 (expected graduation date)
- Ph.D. AVIATION, Embry Riddle Aeronautical University, 2020
- M.S. TECHNOLOGY/AVIATION HUMAN FACTORS, Arizona State University, 2001
- B.S. AVIATION MANAGEMENT/PROFESSIONAL FLIGHT, Arizona State University, 2007
- B.A. GERMANIC AND SLAVIC LANGUAGES, Brigham Young University, 1999

James Harry Hartman, III, PhD Aviation and Higher Education Expert

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CONTINUING EDUCATION

Adobe Acrobat DC Basics

Adopting an Agile Approach to Project Management

Advanced Customizing with Project 2010

Aeronautical Information System Replacement (AISR) for METARs

Agile Project Management Essentials

Aircraft Performance - Recurrent Training July 2015

Annual Ethics Training

Appropriations Law Refresher for FAA Acquisition Professionals

Appropriations Law Seminar

ASH SAVI

ATO ENVIRONMENTAL MANAGEMENT SYSTEM (EMS) AWARENESS

ATO Safety Risk Management (SRM) Panel Facilitation

ATO Safety Risk Management (SRM) Practitioner Course

ATO-P NAS ORIENTATION

ATOS 1.2 - Collecting Quality Data

Automated Terminal Proximity Alert (ATPA)

Aviation Risk Identification and Assessment (ARIA) Briefing

Basic Presentation Skills: Delivering a Presentation

Basic Statistics and Graphical Methods for Six Sigma

Brand Management for Social Media and Wireless Technologies

Business Grammar: Common Usage Errors

Business Grammar: Parts of Speech

Business Grammar: Punctuation

Business Grammar: Sentence Construction

Business Grammar: The Mechanics of Writing

Business Grammar: Working with Words

Capitalization Policy

Career Planning: Taking Charge of Your Career - Virtual

Choose the Right Coaching Style

Control Project Communications (PMBOK® Guide Fifth Edition)

Controlling Changes and Closing a Project (PMBOK® Guide Fifth Edition)

Controlling Costs

Controlling Project Costs (PMBOK® Guide Fifth Edition)

COR Certification Requirements

Cost Estimating

Create Work Breakdown Structure

Customer Requirements Management

Defining and Sequencing Project Activities

Department of Transportation Security and Privacy Awareness Training

Developing a Brand Internally

Developing and Controlling the Project Schedule

Direct, Monitor, and Control Project Work (PMBOK® Guide Fifth Edition)

DOT No FEAR Act of 2002 Training

EMERGENCIES

Employee Awareness – Drug and Alcohol Testing

Employee's Role in Valuing Performance

Employee's Role in Valuing Performance

Ensuring Delivery of Value and Quality in Agile Projects

Estimating Activity Resources and Durations

Estimating and Budgeting Project Costs

Ethics - Basic Training

FAA - Reporting Waste, Fraud, Mismanagement, Abuse, or Potential Criminal Activity Training

FAA No FEAR Act and Whistleblower Protection Laws

FAA OSH Rights and Responsibilities

FAA Safety Orientation

FAA Standards of Conduct

FAA's Contracting Officer's Representative (COR) Basic Training

FACE COVERING EXPECTATIONS

Federal Leadership on Reducing Text Messaging While Driving

Final Assessment: LSC, QC, and QCG ARIA Briefing

FY08 INTRODUCTION TO SAFETY MANAGEMENT SYSTEMS (SMS)

FY23 Information Security and Privacy Awareness Training (SAT)

Harmony and Respect Campaign: Civility Matters at FAA (Online)

Harmony and Respect Campaign: Civility Matters at FAA (Online)

Hazard Communication: An Employees Right to Know

Human Factors Awareness Course

Human Trafficking Awareness Training

ICAO EQUIPMENT SUFFIXES-TERMINAL (RECURRENT TRAINING, JULY 2017)

Identifying Project Risks (PMBOK® Guide Fifth Edition)

ILT Training Cadre and ILT Training Workshop (Recurrent Training, January 2015)

In Pursuit of Leadership

In Pursuit of Leadership

Information Security & Privacy Awareness Training Course

Information System Security LOB Awareness Training

Initial Departure Separation (Recurrent Training, January 2015)

Integrated Initiation and Planning

Integrated Project Change Control and Close

Integrated Project Execution, Monitoring, and Control

Integrated Safety Training (IST) Workshop (Recurrent Training, January 2018)

Introduction to ATO Safety Management Systems (SMS)

Introduction to Evaluation of Air Carrier Contract Maintenance

Introduction to FAA Risk Management

Introduction to Project Management using Project 2010

Introduction to Risk Workshop

Introduction to Systems Engineering at the FAA (formerly Key Ingredients of System Engineering)

Introduction to the AMS (Acquisition Management System)

Introduction to the Lean Six Sigma Program

IST Workshop

Leading for Life: The Power of Confidence and Lifelong Learning” featuring Tim Sanders

Leading for Life: The Power of Confidence and Lifelong Learning” featuring Tim Sanders

Managing and Controlling Stakeholder Engagement (PMBOK® Guide Fifth Edition)

Managing for Rapid Change and Uncertainty

Managing for Rapid Change and Uncertainty

Managing Procurements

Managing Project Human Resources

Managing Projects

Managing Projects within Organizations

MANAGING SAFETY

Marketing Essentials: Introduction to Marketing

Micro-Learning: Diversity Made Simple

Microsoft OneNote 2010 Essentials

Microsoft OneNote 2010 Essentials

Misapplied Visual Separation, TRACON - Recurrent Training July 2015

Monitoring and Controlling Project Scope

New Employee Safety and Health Orientation

New Entrant Ethics Training

NextGen Advanced Navigation

OPPOSITE DIRECTION OPERATIONS (RECURRENT TRAINING, JULY 2015)

Overcoming Your Own Unconscious Biases

PARACHUTE OPERATIONS (RECURRENT TRAINING, JULY 2015)

Performing Risk Analysis (PMBOK® Guide Fifth Edition)

Personal Branding - Standing Out In A Crowd

Phishing Education and Awareness

PIREPS (Recurrent Training, April 2019)

Plan and Manage Project Communications (PMBOK® Guide Fifth Edition)

Plan Quality Management (PMBOK® Guide Fifth Edition)

Planning and Managing Project Human Resources Simulation

Planning Project Costs (PMBOK® Guide Fifth Edition)

PMBOK Refresher Training

Principles of Plain Language: Basic

Privacy 101

Program Management Using Earned Value Management - Basic Concepts

Project Management Overview (PMBOK® Guide Fifth Edition)

Project Management Process Groups

Project Quality Planning

Project Requirements and Defining Scope (PMBOK® Guide Fifth Edition)

Project Stakeholder Management (PMBOK® Guide Fifth Edition)

Quality Assurance and Quality Control (PMBOK® Guide Fifth Edition)

Quality Assurance/Quality Control Specialist Course

Rate Adopting an Agile Approach to Project Management

Rate Advanced Customizing with Project 2010

Rate Agile Project Management Essentials

Rate Basic Presentation Skills: Delivering a Presentation

Rate Basic Statistics and Graphical Methods for Six Sigma

Rate Brand Management for Social Media and Wireless Technologies

Rate Business Grammar: Common Usage Errors

Rate Business Grammar: Parts of Speech

Rate Business Grammar: Punctuation

Rate Business Grammar: Sentence Construction

Rate Business Grammar: The Mechanics of Writing

Rate Business Grammar: Working with Words

Rate Control Project Communications (PMBOK® Guide Fifth Edition)

Rate Controlling Changes and Closing a Project (PMBOK® Guide Fifth Edition)

Rate Controlling Project Costs (PMBOK® Guide Fifth Edition)

Rate Developing a Brand Internally

Rate Direct, Monitor, and Control Project Work (PMBOK® Guide Fifth Edition)

Rate Ensuring Delivery of Value and Quality in Agile Projects

Rate Identifying Project Risks (PMBOK® Guide Fifth Edition)

Rate Introduction to Project Management using Project 2010

Rate Managing and Controlling Stakeholder Engagement (PMBOK® Guide Fifth Edition)

Rate Managing for Rapid Change and Uncertainty

Rate Marketing Essentials: Introduction to Marketing

Rate Overcoming Your Own Unconscious Biases

Rate Performing Risk Analysis (PMBOK® Guide Fifth Edition)

Rate Plan and Manage Project Communications (PMBOK® Guide Fifth Edition)

Rate Plan Quality Management (PMBOK® Guide Fifth Edition)

Rate Planning Project Costs (PMBOK® Guide Fifth Edition)

Rate Project Management Overview (PMBOK® Guide Fifth Edition)

Rate Project Requirements and Defining Scope (PMBOK® Guide Fifth Edition)

Rate Project Stakeholder Management (PMBOK® Guide Fifth Edition)

Rate Quality Assurance and Quality Control (PMBOK® Guide Fifth Edition)

Rate Risk Management Planning (PMBOK® Guide Fifth Edition)

Rate Risk Response and Control (PMBOK® Guide Fifth Edition)

Rate The Role of Ethics in Project Management

Rate Working with Difficult People: How to Work with Negative People

Rate Workplace Conflict: Strategies for Resolving Conflicts

Rate Writing for Technical Professionals: Effective Writing Techniques

Rate Writing for Technical Professionals: Preparation and Planning

Records Management 101

Recurrent Training Instructor-Led Workshop

Reducing Text Messaging While Driving

REPORTING SUSPICIOUS UNMANNED AIRCRAFT SYSTEM (UAS) ACTIVITY

Requirements Analysis & Development

Responding to Employees Alleging Violations of Whistleblower Protections

Risk Management Planning (PMBOK® Guide Fifth Edition)

Risk Response and Control (PMBOK® Guide Fifth Edition)

Risk Response, Monitor, and Control

Safer On Site - Reducing the Risk of COVID-19 in FAA Facilities

Safety Alerts & Traffic Advisories (Recurrent Training July 2014)

Safety Risk Management (SRM) Training

SEARCH AND RESCUE OPERATIONS (RECURRENT TRAINING, JULY 2015)

SPECIAL VISUAL FLIGHT RULES (SVFR)

Stakeholders and the Communications Management Plan

STARS AT Coach Scenario Generation Training

Technical Project Management

Telework 101 for Employees (telecommuting)

Telework Fundamentals - Employees

The Dimensions of a Functional Analysis

The FAA Insider Threat Detection Mitigation Program

The FAA Insider Threat Program and Reacting to an Active Shooter

The Role of Ethics in Project Management

Time Based Flow Management (TBFM)Terminal Air Traffic Control Specialist

Tower Applied Visual Separation (Recurrent Training, January 2015)

Training Enterprise Application and Management (TEAM) General User Briefing

Travel Charge Card: Cardholder Training

Unmanned Aircraft Systems (UAS)

UNMANNED AIRCRAFT SYSTEMS (UAS)

Valuing Performance System

Valuing Performance System

Valuing Performance, Employees

Vectors below the Minimum Vectoring Altitude (MVA)/Minimum IFR Altitude (MIA)

VFR-ON-TOP

WEATHER DEVIATIONS INTO SPECIAL ACTIVITY AIRSPACE

Weather Dissemination

Working with Difficult People: How to Work with Negative People

Workplace Conflict: Strategies for Resolving Conflicts

Writing for Technical Professionals: Effective Writing Techniques

Writing for Technical Professionals: Preparation and Planning

PUBLISHED WORKS

• Hartman, J. (In-progress, expected publication date in 2024-2025). An Exploratory Study Of Developmental, Forward Flow, Mental Illness, and Task Performance Factors in Air Traffic Controllers and Pilots [Doctoral dissertation, Liberty University].

• Hartman, J. (2023). A Mixed Methods Analysis of a Certified Professional Controller Survey on Foreign Pilots' Aviation English Proficiency [United States Department of Transportation, Federal Aviation Administration, Air Traffic Organization, Quality Control, TCAB-1, P50].

• Hartman, J. (2020). An Exploratory Study of General Aviation Visual to Instrument Meteorological Condition Contextual Factors. (Order No. 561) [Doctoral dissertation, Embry Riddle Aeronautical University]. Digital Commons, Be press. https://commons.erau.edu/edt/561

• Hartman, J. (2014). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2013). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington,

D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2013). National Center for Atmospheric Research. FAA Perspective on the Helicopter Emergency Medical Services (HEMS) Flightpath Tool. https://ral.ucar.edu/events/2013/helicopter-emergency-medical-service-hems-weather-summit

• Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool History, Status, and Future. Adobe Acrobat Download https://ral.ucar.edu/sites/default/files/docs//201afaa-jim-hartman-hems-toolhistory-status-future.pdf

• Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool History, Status, and Future. Microsoft Power Point Presentation. https://ral.ucar.edu/sites/default/files/docs//201afaa-jim-hartmanhems-tool-history-status-future.pptx

• Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool Path to Operations. Adobe Acrobat Download https://ral.ucar.edu/sites/default/files/docs//201bfaa-jim-hartman-hems-tool-pathoperations.pdf

• Hartman, J. (2013). National Center for Atmospheric Research. FAA Helicopter Emergency Medical Services (HEMS) Flightpath Tool Path to Operations. Power Point Presentation. https://ral.ucar.edu/sites/default/files/docs//201bfaa-jim-hartman-hems-tool-pathoperations.pptx

• Hartman, J. (2012). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington,

D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2011). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2010). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2009). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Hartman, J. (2008). Aviation Weather Services. Federal Plan for Meteorological Services and Supporting Research, Office of the Federal Coordinator for Meteorology (OFCM), Federal Aviation Administration (FAA) and coordination of multiple agency narratives. Washington, D.C. https://www.icams-portal.gov/resources/ofcm/groups/fcmssr/fcmssr.html

• Pedersen, H., Gesell, L., Pack, W., Cooke, N. & Hartman, J. (2007). Human Factors Issues in UAS Training. 2007 International Symposium on Aviation Psychology, 1(1), 518-523. https://corescholar.libraries.wright.edu/cgi/viewcontent.cgi?article=1089&context=isap_2007

• Hartman, J. (2001). Cluster analysis of pilots' views of complications arising in flight [master's thesis, Arizona State University].

https://www.dropbox.com/s/po8675d00pkpuds/Cluster-Analysis-of-Pilots-Views-of-Complications-Arising-In-Flight.pdf?dl=0

SERVICE

• Outstanding service award given by the FAA Aviation Weather Office, ANG-C6 for outstanding project management support of the National Ceiling and Visibility Program (2008-2014)

• Federal Aviation Administration Combined Federal Campaign, Aviation Weather Office, ANG- C6 Office Representative, Washington, D.C. (2008-2014)

• Outstanding service award given by the Arizona State University for excellence in student mentoring (2007-present)

PROFESSIONAL AFFILIATIONS

• Friends and Partners in Aviation Weather (FPAW) (2008-present)

• Aircraft Owners and Pilots Association (2001 – present)

• FAA Pilot Wings Proficiency Program (2001 – Present)

• Embry Riddle Aeronautical University Alumni Association (2020 – Present)

• Arizona State University Fulton School of Engineering Aviation Programs Alumni Association (2001 – Present)

• Brigham Young University Alumni Association (1999 – Present)

• Liberty University School of Psychology Dean's List 4.0 Grade Point Average (2021)

SPECIAL AWARDS (selected)

• On-the-Spot Certificate awarded by the Federal Aviation Administration NextGen and Operations Planning group for outstanding support and superior service to the ANG-C6 Aviation Weather Group, Washington, D.C, 2010 (2008-2014)

• Cash award given by the Federal Aviation Administration ANG-C6 Aviation Weather Office for outstanding support of the National Ceiling and Visibility program (2008-2014)

• Awarded for best research proposal at Embry Riddle Aeronautical University DAV 703 doctoral residency seminar, Cross database analysis to identify relationships between General Aviation Visual Meteorological Conditions into Instrument Meteorological Condition incidents and accidents (2015)

PROFESSIONAL PRESENTATIONS

• Hartman, J. (November 2020). An Exploratory Study of General Aviation Visual to Instrument Meteorological Condition Contextual Factors, Embry Riddle Aeronautical University, Daytona Beach, FL. https://www.dropbox.com/s/2zrn16gm656t9h4/James-HartmanDissertation-Defense-111620.mp4?dl=0

• Hartman, J. (December 2013). Helicopter Emergency Medical Services (HEMS) Tool - Path to Operations. Federal Aviation Administration, Aviation Weather Division, ANG-C6, Aviation Weather Research Program, Washington, D.C. https://slideplayer.com/slide/9313769/

• Hartman, J., Sims, C., Walden, S. (August 2011). Terminal Aerodrome Forecasts (TAFs) in the Next Generation Air Transportation System (NextGen) Era. American Meteorological Society (AMS), Los Angeles, CA. https://ams.confex.com/ams/14Meso15ARAM/webprogram/Paper191101.html

CERTIFICATIONS

• Federal Aviation Administration: Pilot Certificate #3513437 (Fixed-wing and Rotorcraft flight training at the Arizona Flight Training Center (a Lufthansa Company) and Quantum Helicopters (R22 Helicopters) at the Phoenix Mesa Gateway and Chandler Airports, Mesa Arizona.

• Contracting Officer's Technical Representative (COTR) certification by the Federal Aviation Administration, Aviation Weather Office, National Ceiling and Visibility Program Manager (ANG-C6), Washington D.C.

• Project Management Professional (PMP) training by the Federal Aviation Administration, Aviation Weather Office, National Ceiling and Visibility Program Manager (ANG-C6), Washington D.C.

• Night Vision Goggle Instructor Course by Lockheed Martin Technology Services for the United States Air Force Flight Simulation Research Laboratory, Human Factors Researcher, Mesa Arizona.

• High Altitude Chamber, Flight Physiology by Arizona State University, Ira A Fulton School of Engineering Aviation Programs, Professional Flight Training, Mesa Arizona

• Transportation Security Officer (TSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona

• Lead Transportation Security Officer (LTSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona

• Acting Supervisory Transportation Security Officer (STSO) by United States Department of Homeland Security, Transportation Security Administration, Sky Harbor International Airport, Phoenix Arizona

• Adjunct Faculty Member by Arizona State University, Ira A Fulton School of Engineering Aviation Programs, Mesa Arizona

EDUCATION

• Ph.D. PSYCHOLOGY, Liberty University, 2025 (expected graduation date)

• Ph.D. AVIATION, Embry Riddle Aeronautical University, 2020

• Doctoral work in Public Administration, 2002-2006

• M.S. TECHNOLOGY/AVIATION HUMAN FACTORS, Arizona State University, 2001

• B.S. AVIATION MANAGEMENT/PROFESSIONAL FLIGHT, Arizona State University, 2007

• B.A. GERMANIC AND SLAVIC LANGUAGES, Brigham Young University, 1999