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# Randall D. Johnson

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## Education:

- Doctor of Philosophy—Communications—Ohio University, Athens, Ohio
- Master Business Administration—Embry-Riddle Aeronautical University
- Bachelor Professional Aeronautics—Embry-Riddle Aeronautical University
- Professional Studies:
  - ✦ Aircraft Accident Investigation—University of Southern California
  - ✦ Crash Survival Investigators School—International Center for Safety Education
  - ✦ Crew Resource Management Instructor Course—United States Department of Transportation
  - ✦ Crew Resource Management—United States Department of Transportation
  - ✦ Aviation Safety Manager Course—United States Department of Transportation
  - ✦ Aviation Safety Program Management—University of Southern California
  - ✦ Aviation Maintenance Management School—United States Army
  - ✦ Aviation Maintenance Test Pilot School—United States Army

## Collegiate Teaching Experience:

- Chair, School of Aviation Science—Utah Valley University
- Associate Professor—Middle Tennessee State University
- Professor Emeritus—Auburn University
- Assistant/Associate Professor/Dean—Embry-Riddle Aeronautical University
- Assistant Professor—Ohio University
- Adjunct Professor—Embry-Riddle Aeronautical University

## Work Experience:

- Chief Patient Safety Officer/Chief Learning Officer—Baptist Health Montgomery, AL
- Assistant Airport Director—Ohio University
  - ✦ University Pilot, King Air (B200), Barron (B58)
  - ✦ System Administrator
- Lieutenant Commander, United States Coast Guard
  - T-44 Flight Instructor/Management Information Systems Officer—Chief Naval Air Training Command, United States Navy, Corpus Christi, TX
    - ✦ Managed information systems/software for five Navy training bases and Blue Angels
    - ✦ T-44 Advanced/Basic Instrument and Primary flight instructor for Coast Guard, Navy, Marine Corps and Air Force student pilots
- HU-25 Falcon FanJet Aircraft Commander/Instructor Pilot, Coast Guard Group Safety Officer, Corpus Christi, TX

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- ▾ Conducted search, rescue, pollution and law enforcement flights in all weather conditions
- ▾ Conducted international flights
- ▾ Managed safety programs for a Coast Guard Air Station, Coast Guard vessels, small boat stations and a Loran station
- ▾ Supervised flight/ground safety officers
- T-34 Flight Instructor—Training Squadron Two, Pensacola, FL
  - ▾ Standardization instructor pilot
  - ▾ Instructed student pilots in basic/advanced instruments, primary, night, cross-country and formation
  - ▾ Management Information Systems Officer
- HH-52 Aircraft Commander—Barbers Point, HI
  - ▾ All weather helicopter search and rescue
  - ▾ Management Information Systems Officer
- CH-47 Aircraft Commander/Maintenance Officer—Ft Bragg, NC and Korea
- UH-1 Flight Instructor—Ft Rucker, AL
- UH-1 Medevac Aircraft Commander—Ft Bliss, TX

## Other Aviation Teaching Experience:

- Flight Instructor, Auburn University
- Flight Instructor, Embry-Riddle Aeronautical University
- Flight Instructor, Ohio University
- HU-25 (Falcon FanJet) Instructor Pilot, United States Coast Guard
- T-44 (King Air) Instructor Pilot, United States Navy
- T-34 Instructor Pilot, United States Navy
- UH-1 Instructor Pilot, United States Army

## Honors and Awards:

- Frank E. Sorenson Research Award: University Aviation Association Recipient for excellence in scholarship, writing, and research.
- Teacher of the Year, Department of Aviation Management and Logistics, College of Business, Auburn University
- Student Government Association, Teacher of the Semester, Embry-Riddle Aeronautical University
- Society of Satellite Professionals International Award Recipient. Research—Global Navigation Satellite System (GNSS)
- Nominee, Teacher of the Year, College of Engineering, Aviation Department—Ohio University

## Professional Activities

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- Organizer, Steering Committee Member, First Annual Reach to Space: Space Commercialization Conference, 2007  
(<http://www.reachtospace.org/conference.php>)
- Academic Council Member, International Association for the Advancement of Space Safety (<http://www.iaass.org/>).
- Associate Editor, *Online Journal of Space Communications*,  
(<http://satjournal.tcom.ohiou.edu/>).
- Co-Chair, Academic Council, Society of Satellite Professionals International  
(<http://sspi.org/>).
- Member of the Shared Situational Awareness Integrated Product Team for the Next Generation Air Transportation System, 2006-2007 (NGATS)  
(<http://www.ncat.com/ngats/index.html>).
- NASA Summer Faculty Research Fellow, Marshall Space Flight Center, Huntsville, AL. Research Focus: Human-Rating of a Nuclear Thermal Propulsion System.
- Book
  - ▾ Randy Johnson, *From Cubs to Hawks: The Story of the Aircraft, Airfields and Training of the Tuskegee Airmen*, (Ft. Washington, PA: Eastern National, 2005).
- Publications (Peer Reviewed)
  - ▾ Johnson, Randy & Stobbe, Terry, "A Behaviour[sic] Focus for Excellence: Teaching Healthcare Professionals to Fly," *Arab Medical Hygiene*, October 2012.
  - ▾ Randy Johnson and Terrence Stobbe, "Beyond Pilot Error: The Effects of Corporate Culture and Individual Sensemaking at Acme Community Air Service," *Collegiate Aviation Review*, 26, (1), 2008, 50-66.
  - ▾ Randy Johnson, Ray Hamilton, Brian Gibson, and Joe Hanna, "Usefulness of collegiate Aviation Publications: What Aviation Educators Say," *Collegiate Aviation Review*, 24 (1), 2006, 82-100.
  - ▾ Hanna, Joe B., Robert A. Kunkel, Gregory A. Kuhlemeyer, and Randy Johnson, "The Immediate Financial Impact of Transportation Deregulation on the Stockholders of the Airline Industry," *Journal of Air Transportation*, 10 (2), 2005, 83-95.

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- ▼ Joseph N. Pelton, Randy Johnson & Don Flournoy, “Needs in Space Education For The 21<sup>st</sup> Century,” *Space Policy* 20 (2004), 197-205.
  - ▼ Randy Johnson, “Blind Flying On the Beam,’ Aeronautical Communication, Navigation and Surveillance (CNS): Its Origins and The Politics of Technology—Part 1: Form and Function,” *Journal of Air Transportation*, 8 (1), 2003, 37-68.
  - ▼ -Randy Johnson, “Blind Flying On the Beam,’ Aeronautical Communication, Navigation and Surveillance (CNS): Its Origins and The Politics of Technology—Part II: Political Oversight and Promotion,” *Journal of Air Transportation*, 8 (2), 2003, 57-78.
  - ▼ Randy Johnson, “Blind Flying On the Beam,’ Aeronautical Communication, Navigation and Surveillance (CNS): Its Origins and The Politics of Technology—Part III: Emerging Technologies,” *Journal of Air Transportation*, 8 (2), 2003, 79-104.
  - ▼ Randy Johnson, Editor, Issue 1: “From the Editor,” *Online Journal of Space Communication: An International Electronic Journal*, Education and Training: Curriculum and Resource Development for the 21st Century, [www.spacejournal.org](http://www.spacejournal.org), June 2002.
  - ▼ Randy Johnson, “Aviation, Herbert Hoover and His ‘American Plan,’” *Journal of Aviation/ Aerospace Education and Research*, Spring 2001, 35.
  - ▼ Randy Johnson, “The ‘Rock’: The Role of the Press In Bringing About Change In Aircraft Accident Policy,” *Journal of Air Transport World Wide*, March 2000, 37.
    - Federal Aviation Administration Historical Files, Washington, DC.
    - Cited: “News Briefs,” *Air Safety Week*, May 24, 1999, 6.
- Proceedings
    - ▼ Johnson, R. (Presenter & Author), University Aviation Association Fall Conference, UAA, Wichita, KS, Academic, International, published in proceedings, Invited, Discipline-based Scholarship. (October 24, 2009).
    - ▼ Johnson, R. (Presenter & Author), Collegiate Aviation Summit/Rising to Meet the Challenge, University Aviation Association, Denver, CO, "Professional Paper Presentation," Academic, International, published elsewhere, Accepted, Discipline-based Scholarship. (October 16, 2008).

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## Randall D. Johnson

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- ▼ Randy Johnson, “Mission, Purpose and Organizational Risk,” in *Advances in Marketing: Concepts, Issues and Trends*, Proceedings of the Annual Meeting of the Society for Marketing Advances, St. Pete Beach, FL., 2004.
- ▼ Randy Johnson, Joseph Pelton, Don Flournoy , Henry Hertzfeld & Huessien J. Huessien, “White Paper Report: Needs in Space Education for the 21<sup>st</sup> Century—Research, Higher Education, Training and Public Policy,” National Workshop on Space Education, George Washington University, May 2, 2003.
- Other Publications
  - ▼ Randy Johnson, “The Lights of Alabama,” *Encyclopedia of Alabama*, <http://www.encyclopediaofalabama.org>, Online, 2008.
  - ▼ Randy Johnson, “Human-Rating Requirements for Nuclear Thermal Propulsion Systems (NTP),” NASA
  - ▼ Randy Johnson, “Aerial Radio Navigation,” Vol. I of *Air Warfare: An International Encyclopedia*, ed Walter J. Boyne (Santa Barbara, California: ABC-CLIO, 2002), 4.
  - ▼ Randy Johnson, “Global Navigation Satellite System,” Vol. I of *Air Warfare: An International Encyclopedia*, ed Walter J. Boyne (Santa Barbara, California: ABC-CLIO, 2002), 259-260.
  - ▼ ” Randy Johnson, “National Advisory Committee for Aeronautics (NACA),” Vol. II of *Air Warfare: An International Encyclopedia*, ed Walter J. Boyne (Santa Barbara, California: ABC-CLIO, 2002), 443.
  - ▼ Randy Johnson, ”Flying Blind: A Brief History of Aviation Advancements, 1918-1930,” *Fathom*, On-Line Courseware by Columbia University, British Library, American Film Institute, Cambridge University Press, London School of Economics, Natural History Museum, New York Public Library, University of Chicago and the University of Michigan ([www.fathom.com](http://www.fathom.com))
  - ▼ Randy Johnson, “Positive Control Airspace—A Historical View,” *U.S. Navy/U.S. Coast Guard Flight*, 1989
- Dissertation: *Herbert Hoover and the Aeronautical Telecommunications System: His Influence on Its Development and Deployment, as Secretary of Commerce*.
  - Federal Aviation Administration Historical Files, January 2000.

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- Conference and Panel Presentations

- Johnson, R. "Patient Safety and the Incredibles," University of Alabama Birmingham, Emergency/Trauma Departments, Birmingham, AL, February, 2019.
- Johnson, R. "Decision-making and Risk", Research Forum, Aviation Accreditation Board International, Annual Conference, February 19, 2018.
- Johnson, R. Keynote Speaker, "Supply Chain, Patient Safety, and Decision-Making in a High-Risk Industry", Alabama Society for Healthcare Management (ASHMM), October 13-15, 2014
- Johnson, R., Stobbe, T., & Nettey, I., "What do Relationships and CRM Have in Common?", 2014 A<sup>3</sup>IR-Conference, January 10, 2014.
- Sullivan, D. & Johnson, R., "Emotional Hijacking: When Emotions Deter Sound Clinical Judgments", Tennessee Simulation Alliance, Sixth Annual TN Simulation Alliance Conference, November 21, 2013
- Johnson, R. & J. Eric Morgan, Keynote Speakers "What Do Pharmacists and Flight Crews Have in Common?", Alabama Society of Health-System Pharmacists, June 2013.
- Johnson, R., Keynote Speaker, "Nursing, Flight, and Safety: What's the Connection?", Annual International Nursing Simulation/Learning Resource Centers Conference, San Antonio, TX (June 20-23, 2012).
- Johnson, R., "Pharmacy, Safety, and Emotions: What do they have in common?", Alabama Society of Health-System Pharmacists, (October 2013).
- Johnson, R., 2011 Annual Meeting of the AUPHA, "How Our Healthcare Administration Students Learn to Fly," The Association of University Programs in Health Administration, Charleston, SC. (June 2011).
- Johnson, R. & Bode, T., Safety Across High-Consequence Industries, "Safe Operations Accountability in High Consequence Industries" Saint Louis University, Saint Louis, MO. (March 2011)
- Davis, K, & Johnson, R, International Meeting on Simulation in Healthcare, "Applying the Anesthetists' Nontechnical Skills Taxonomy in a Team Based Simulation Scenario," IMSH, New Orleans, LA. (January 2011).
- Miller, J., & Johnson, R., International Meeting on Simulation in Healthcare, "How Our Hospital Learned to Fly: Combining CRM Principles and Simulation to Make Patient Care Safer," IMSH, New Orleans, LA. (January 2011).

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- Johnson, R. & Miller, J., International Meeting on Simulation in Healthcare, "Improving Team Emotional Intelligence through Simulation," IMSH, New Orleans, LA. (January 2011).
- Johnson, R. International Meeting on Simulation in Healthcare, Video: "SMART Training," IMSH, New Orleans, LA. (January 2011).
- Johnson, R., University Aviation Association, "Emotional Intelligence in Medical Teams and Flight Crews" University Aviation Association. (October 2010).
- Miller, J. & Johnson, R. National Patient Safety Congress, "How Our Hospital Learned to Fly," National Patient Safety Foundation, Orlando, FL. (May 2010).
- Miller, J. & Johnson, R., Laerdal International Conference, "A Window on Our World," Laerdal, Jacksonville, L. (February 2010).
- Miller, J., Johnson, R., Davis, K., Barca, R., & Gaston, K. Laerdal Conference, "Simulation in Community Hospitals," Laerdal, Jacksonville, FL. (December 2009).
- Johnson, R., Annual Risk Management Conference, "SMART Training and Risk Reduction," Physicians' Reciprocal Insurers, New York, New York. (November 2009).
- Johnson, R., University Aviation Association Fall Conference, "A Better Approach: Understanding Emotions and Their Effect on Decision-Making and Behavior-Based Safety and UAA, Wichita, KS. (October 2009).
- Johnson, R. & Miller, J., Dallas SUN Conference, "Are We Supposed to be Measuring Something?," Laerdal, Dallas, TX. (September 2009).
- Johnson, R., Collegiate Aviation Summit/Rising to Meet the Challenge, "Professional Paper Presentation," University Aviation Association, Denver, CO. (October 2008).
- Johnson, R., Collegiate Aviation Summit/Rising to Meet the Challenge, "Research Roundtable—Comparing Fatigue in Nursing and Aviation," University Aviation Association, Denver, CO. (October 2008).
- Johnson, R., Space Education Symposium, "Space Education in the 21st Century," United States Air Force, Air University, Montgomery, AL. (September 2007).
- Johnson, R., 19th Annual European Aviation Safety Seminar, "A Psychological Training Program for Mitigating Human Error and Improving

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Safety In Civil Aviation Personnel," Flight Safety Foundation/European Regions Airline Association, Amsterdam, Netherlands. (March 2007).

Johnson, R. Annual Aviation Safety Conference, "Application of Purpose-Based Decision Making Theory in Operational Environments," Mission Aviation Fellowship, Redlands, CA. (February 2007).

Johnson, R., NASA Summer Faculty Fellowship Presentation, "Human-Relating Requirements for Nuclear Thermal Propulsion Systems (NTP)," Marshall Space Flight Center, Huntsville, AL. (2005).

Butler, D., Johnson, R., Blanks, G., Society of Satellite Professionals Meeting, "The Benefits of a SSPI/Auburn University Certificate Program: Curriculum for Satellite Professionals," Society of Satellite Professionals, Washington, D. C.. (2005).

Johnson, R., Book Release and Second-Day-Of-Issue Stamp, "From Cubs to Hawks," National Park Service, Tuskegee, AL. (November 2005).

Johnson, R., Stobbe, T., Collaboration Across Borders, "A Qualitative and Quantitative Approach to Safety Communications within Corporate Structure and Culture," University Aviation Association. (2004).

Johnson, R., Research Roundtable, Collaboration Across Borders, "Research Report: Corporate Communications and its effect on an Aviation Corporation," University Aviation Association. (2004).

Johnson, R., Advances in Marketing: Concepts, Issues, and Trends, "Mission, Purpose and Organizational Risk," Society for Marketing Advances. (November 2004).

Johnson, R., Cowings, P., Toscano, W., "A Psycho-Physiological Training Program for Mitigating Human Error and Improving Safety in Civil Aviation Personnel," *Staying Safe in Times of Change: 19<sup>th</sup> Annual European Aviation Safety Seminar*, Sponsored by the European Regions Airline Association and the Flight Safety Foundation, (March 2007).

Johnson, R., "Focusing on Mission and Its Deadly Effect on Aviation Safety," University Aviation Association Fall Education Conference, (October 2004).

Johnson, R., "A Quantitative and Qualitative Approach to Aviation Safety Management," University Aviation Association Fall Education Conference, (October 2004).

Johnson, R., & Butler, D., "Mission, Purpose and Organizational Risk," Society for Marketing Advances, (2004).



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Johnson, R., Chair, "Aviation Communications Conference," Arizona State and Embry-Riddle Aeronautical Universities, March 2002.

Johnson, R., Chair, "Aviation Safety Education," Society of Automotive Engineers, Fall Conference (2001).

Johnson, R., "The 'Rock': The Role of the Press In Bringing About Change In Aircraft Accident Policy", "Embry-Riddle Aeronautical University Forum," (2000).

Johnson, R., "Eurocontrol's Aeronautical Telecommunication Network," University Aviation Association Fall Education Conference, (1998).

Johnson, R., "Crew Resource Management," Ohio University Professional Aviation Seminar, (1997).

### Outreach

- 2005-Present:

- Synergistic Medical and Resource Team (SMART) Training. SMART is a safety program developed for the healthcare industry. SMART Training promotes patient safety through the advancement of teamwork. The training is performed in an environment that empowers team members to apply high-level communication skills and purpose-based decision making to yield the best outcomes for the patient, whether dealing with a critical situation or an everyday event. Simulation is used to enhance adoption of concepts and maximize practice change. SMART goes beyond the traditional application of Crew Resource Management (CRM) principles in healthcare by empowering staff to prevent, trap or mitigate threats to safety originating from human interaction and systemic error through the implementation of SMART Training principles.
- Partnered with Baptist Health, Montgomery, AL, creating The Institute for Patient Safety and Medical Simulation (a partnership between Baptist Health and Auburn University). The Institute's mission is to improve the quality of healthcare while reducing the likelihood of medical errors. The 22,500 square-foot facility was conceived as a training center for new and experienced healthcare professionals. It houses fully equipped and realistic clinical space, including a simulated operating room, emergency/trauma room, neonatal intensive care unit, post anesthesia recovery unit, nursing care areas, and more. The Center was created to train physicians, nurses, and other healthcare professionals and students SMART. The strategy of many organizations has been to employ new information technologies and to adopt aviation's Crew Resource

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Management (CRM) principles. While the Institute acknowledges that these technological advances and principles are important and can be effective, such approaches alone do not resolve the root cause of error – human interaction. Until this core interaction is addressed and improved, significant mitigation of human error will not occur.

## Grants and Funded Research

- Fall 2019, Scholarly Activity Grant—College of Health and Public Service. “The Role of Media in the Passage of Public Law 111-216 the Airline Safety and Federal Aviation Extension Act of 2010.”
- Research Grant—University of Alabama Birmingham. “Randomized Controlled Trial of SMART™ Training to Improve Patient Safety” is a collaborative effort of UAB Montgomery and the Institute for Patient Safety & Medical Simulation, part of the Baptist Health system.
- Collaboration with the College of Business, Auburn University and the Society of Satellite Professionals International to partner with industry in designing a space curriculum, professional “short courses.” Courses were first offered in 2006 and are on-going.
- Collaboration with the College of Business, Auburn University, Ohio University and the Society of Satellite Professionals International to develop an educational/industry telecommunications data base for the satellite industry. (\$12,000).
- Funded Research—Embry-Riddle Aeronautical University (\$5,000), A Project to Establish Research Collaboration with NASA Ames, Funded April 2000.
- Funded Research—FAA Grant to study Land and Hold Short Operations (LAHSO--\$70,000) Funds used to partially support two graduate students and faculty.
- Funded Research—A communications approach in a high-risk aviation environment. Research is on-going. Initial funding: 2003.

## FAA Certificates and Ratings

- Certified Flight Instructor (04/12)
  - ▼ Airplane Single/Multi-Engine Land
  - ▼ Instrument

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- Airline Transport Pilot, Airplane Multi-Engine Land—DA-20
- Commercial
  - ▾ Airplane Single-Engine Land
  - ▾ Rotorcraft—Helicopter
  - ▾ Instrument Helicopter

Flight Time

•Total	6,456	•Pilot-In-Command	5,678
•Instruction Given	2,432	•Airplane	3,436
•Helicopter	2,242		