Jerry Hendrix
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Objective: Advance the state-of-the-art research in obtaining innovative solutions in the aeronautical field driven by mission success and customer satisfaction, being focused on people and their success, advancing new technologies, supporting professional and collegiate collaboration, always being vigilant and ready, community minded and treating everyone with trust, fairness and respect!

Professional Experience:

January 2019 to Present

University of Alabama- Huntsville, Alabama

UAH Rotorcraft Systems Engineering and Simulation Center – Executive Director of Center and Director of Unmanned Aircraft Systems (UAS) Research with an annual operating revenue of approximately $12.0M per year

Lead Principal Investigator (PI) for the Federal Aviation Administration (FAA) UAS Center of Excellence supporting the integration of UAS in the National Airspace System Lead PI on tasks for the UAS research for Disaster Studies, Advanced Technologies, Cargo UAS and Counter Threat UAS

Trained FAA/ Federal Emergency Management Agency (FEMA) Air Boss for critical Department of Homeland Security (DHS) operations and disaster response. (Operated in DHS Exercise “Shaken Fury”)

Lead PI for the UAS Threat Program Development for US Army, Department of Justice (DOJ) and establishment of relationships with key aviation companies in Huntsville

Lead PI for the DOJ in UAS Training and Counter Research supporting several DOJ groups
Major contributor to the UAH being a member and collaborator in the new Cooperative Institute for Research to Operations in Hydrology (CIROH)

Lead PI for special programs for US Army UAS related

Providing innovative solutions to customer’s need as evidenced by being the lead for the Section 383 FAA Reform Act Program for Counter UAS in and around Airports with the Port of Huntsville / Huntsville International Airport

August 2013 to January 2019

Texas A&M University System (Housed at Texas A&M Corpus Christi)

Stood up and became the Executive Director of the Board of Regents approved Lone Star UAS Center of Excellence and Innovation, an FAA UAS Test Site with an annual operating revenue close to $9M per year

Directed over 3200 UAS test flights. Responsible for integration of advanced technologies

FAA Liaison, Subject Matter Expert (SME) on UAS Concepts of Operations (CONOPS), UAS Traffic Management, Airspace and Safety

Air Wing 1 Commander for the State of Texas Emergency Management and FEMA Task Force 1

Supported NASA UAS Traffic Management (UTM) development program for Technology Capability Level (TCL) 1 thru 4

Supported over 100 commercial customers in use of UAS including the Global #1 company completing 1100 package delivery missions including control from regional distribution locations

UAS Multi-Monitor Run Time Assurance (Autonomy) – Led team supporting NASA in development. Team member winner Aeronautical Ground Collision Avoidance System (GCAS) Robert J. Collier Aviation Trophy

January 2002 to August 2013

Huntington Ingalls (Camber Corporation) Huntsville, Alabama

Chief Science Officer / Chief Technology Officer (CTO) - Responsible for technology advancements, research projects, technical council, and company innovations (14 to 1 ROI)

Director of Engineering (80 people)- Lead for Army Attack Helicopters (AH-64) under PEO Aviation using Simulation Based Acquisition and development for PEO Aviation Support Equipment (ASE) for the Ground Support Equipment Toolkit

Managed the Risk and Cost Reduction System (RACRS) for PEO Aviation which was a replica of the AH64D and other military platforms (UAS and OH-58 Kiowa, which was used for reverse engineering, procedure validation, systems prototyping, upgrades, retrofitting systems, system integration and testing and fabrication techniques for cockpit hardware.

Developed Tactics, Techniques and Procedures (TTP) and software for Manned-Unmanned Teaming for the Apache Helicopter and UAS

Developed and tested communications equipment UAS to Apache

Developed Hi-Fi Pilot Training applications with Avionics Hardware in the Loop and validated threat models

July 1983 to January 2002

The Boeing Company / L3 Comm – Link – Huntsville, Alabama / Houston, Texas

Systems Developmental Manager and Researcher

Lead for Software Requirements and System Controller Unit development for Redstone Arsenal Fiber Optic Guided Missile Program

International Space Station Payload Lead using Model Based Systems Engineering and Rapid Prototyping for the Payload Systems

Manager of ISS International Space Station Payload Software and Operational Test as well as the lead for the Reliability & Failure Analysis Integrated Product Team (IPT)

Boeing Huntsville Systems Engineering Functional Manager (400 Systems Engineers) and lead for Boeing Automated Systems Engineering (BASE – Model Based Systems Engineering)

Manager of the EXPRESS Racks IPT which was a multi-disciplinary team (Systems, Hardware, Software and Test) Human Research Facility Rack, EXPRESS Microgravity and the Biological Research Project Rack

Lead PI for F-22 Pilot Training System and F-22 Ada Software Development Lead

US Army's Comanche Helicopter Simulator and Research Principal Investigator

Ada computer language and lead for computational use of Ada across simulators and aircraft

Education:

1985: Studies in Masters in Operations Research/Business - University of Houston (Incomplete)

1983: B.S. Aerospace Engineering - Georgia Institute of Technology, Minor Helicopter Theory

1980 A.S Mathematics - Gordon College

FEMA Trained in Disaster Response

Operationally certified Air Boss for UAS and Crewed Aircraft Operations

Awards Received:

- Elected President of the Association of Uncrewed Vehicle Systems International - AUVSI Pathfinder – Huntsville Chapter President 2021 - 2023
- Winner of the prestigious Texas A&M University - Corpus Christi - Presidential Order of the Silver Wave for bringing international recognition to the university 2015
- Team Member of NASA team winning the Collier Award for Auto Ground Collision Avoidance 2018 (Robert J. Collier Trophy is awarded annually "for the greatest achievement in aeronautics or astronautics in America, with respect to improving the performance, efficiency, and safety of air or space vehicles – F16 and Grey Eagle Class UAS))
- Air Wing 1 UAS Commander Texas Task Force FEMA 2017-2019
- Selected as an internationally recognized engineer/scientist with the Walter P. Batson Technical Fellowship Award 2011
- NASA distinguished selectee as a NASA Launch Honoree & Space Flight Awareness Award 2001
- NASA distinguished Selectee of the Astronaut Office coveted NASA Crew Award 2000
- Twice selected by NASA for a NASA Group Achievement Award 1998,1999
- Multi- published author with awards for technical papers in systems engineering, computer language research, game technologies and unmanned aircraft systems
- “Recon in a Serious Battle” Huntsville Paper 2009
- “NASA Developing UAS Traffic Management (UTM)” Inside Unmanned Magazine 2016
- “First Response using UAS – Hurricane Harvey – “Unmanned Systems Magazine - 2017

Professional Memberships / Training:

- Association of Uncrewed Vehicle Systems International - AUVSI Pathfinder – Huntsville Chapter President 2021-2023
- FEMA - Trained Air Boss with FEMA training for First Response, acted as Air Boss for the Shaken Fury exercise
- FEMA - Over 450 hours of UAS Air Boss/ Operations in Disasters performing Search, Rescue and Recovery, over 4000 missions
- Interservice / Industry Training Systems and Education Conference (IITSEC) Research Committee supporting from 1986-1989, 2007-2009 – Largest simulation / training conference in the world.