



John J. Duncan
Executive Director, InterFlight Ocean
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Biography

John Duncan speaks all the languages of the aviation industry – flying, controlling, basing, managing, financing, scheduling, engineering, repairing and more. His pan-aviation experience, which is military and civilian, domestic and international, combined with a perfectionist’s presentation and authorship make him the team’s “glue,” seeing and merging all angles of an aviation project into a comprehensive and viable package.

John joined the Civil Air Patrol at age 14, which began his love of aviation. He was appointed to the elite US Air Force Academy officer training program at 16 as the United States Senate’s primary nominee from the state of New York – while still not old enough to fight or vote. Among the “best of the best” he excelled academically in the top-ranked undergraduate aeronautics program in the country, and simultaneously “maxed” every score of athleticism and military command. A natural in the cockpit, John achieved his civil pilot’s license in the minimum time allowed and went on to rate academically first and tied for top airman in military flight training. When flying grew routine, he graduated first in air traffic control school, took on airfield management with the same result, despite two interruptions of war he earned a Master of Aviation Business from America’s top-ranked aviation business college, again with valedictorian results, and most recently proved his knowledge of aircraft systems and hands-on mechanical prowess as top graduate of the nation’s leading airframe and powerplant mechanic school. To this day his stamina and discipline to do work persist, his leadership is natural and sure, but his greatest contribution to the IFO team comes from 20 years of scholarship across aeronautics, airmanship, airports, airspace, aircraft and the business of aviation.

John’s scholarship was accomplished every step of the way alongside full-time employment in some facet of aviation, sparing no real-world experience. He has served in the Air Force, Navy, and Air National Guard, managed complex, joint-use airports, responsible for flight and ground operating procedures, airfield facilities, staffing, funding and regulatory compliance, he personally controlled surge-level air traffic and dispatch operations, led troops, civilians, and contractors in peace and war, commanded multinational airfield operations on host nation soil, and engaged plain-clothed diplomacy as US air operations liaison to the Pakistani government. John’s aviation business experience ranges from “mom and pop” general aviation entrepreneurship to federally funded, multi-million dollar Unmanned Aerial Vehicle programs for the FAA and Department of Defense.



Well traveled, John has developed an acute sensitivity to different cultures, is proven trustworthy to hold a current US Secret security clearance, and speaks and writes French as a second language.

Biography Seaplane Focus

John is an aviator by choice. By birth he is the great-grandson, grandson, son and brother of professional shipwrights and sailors in the USA and Europe. Today he lives at sea with his wife aboard the sailing cutter “Tessie,” which was six years in building by his own hand. He is also an avid surfer. Born and raised a waterman, John is extremely knowledgeable about the nature of the sea, its perils and its possibilities. Those possibilities underpin his dedication to seaplanes above all other forms of aviation.

Education

M.B.A., Aviation Business	Embry-Riddle Aeronautical University, FL
B.S., Aeronautical Engineering	United States Air Force Academy, CO
Squadron Officer College	Air University, AL
Airfield Operations Command School	Altus AFB, OK
FAA Air Traffic Control Certificate, Tower/Radar/PAR/ASR	Keesler AFB, MS
Airfield Management School	Air Education & Training Command, MS
Military-Civil Airspace Management School	Air Education & Training Command, MS
USN Aviation Preflight Indoctrination	NAS Pensacola, FL
USN Undergraduate Naval Aviation Training	NAS Whiting Field, FL
USAF Specialized Undergraduate Flight Training	Vance AFB, OK
USAF and USN Land and Water Survival	Woodland Park, CO and Pensacola, FL
Process Improvement Specialist Qualification	Tewksbury, MA
Airframe & Powerplant Mechanic Certificate	National Aviation Academy, MA

Aviation Certificates and Ratings

ASEL	Commercial	CFI	Control Tower Operator
ASES	Instrument	Tailwheel	A&P

Gliders to jets: TG-33, PA-28, C-152, C-172, C-180, C-206, C-210, DA-20, A-7DC, T-3B, T-34C, T-1B
750 hours total time, extensive mountainous terrain and IMC.



Areas of Expertise

PROFESSIONAL LEADERSHIP
AIRPORT OPERATIONS
AIRFIELD MANAGEMENT
AIR TRAFFIC CONTROL
MILITARY-CIVIL LIAISON
AERONAUTICAL ENGINEERING
BUSINESS
COMMERCIAL PILOTING

INTERNATIONAL OPERATIONS
AIRSPACE DESIGN & MANAGEMENT
FLIGHT & GROUND SAFETY
AIRFRAME & POWERPLANT MAINTENANCE
SYSTEM & TEST ENGINEERING
REGULATORY COMPLIANCE AVIATION
FLIGHT INSTRUCTION
CONTRACT ASSURANCE

Employment Experience Seaplane Focus

Consulting Partner/Research Advisor
InterFlight Ocean
Miami, FL
January 2006 – Present

Sole or contributing consultant on the following seaplane aviation projects:

[Confidential Client]

August 2008 - Present

Jet conversion study for an all-composite, single engine amphibious seaplane. Singularly researched and delivered the engineering, legal and acquisition solutions to move ahead an unparalleled proof of concept in experimental seaplane aviation.

Dornier Seawings AG

June – July 2008

Master Business Plan review for the production and sales re-launch of a composite, twin turbine, high-end amphibious aircraft in the USA.

Seaplanes of Key West, Inc
Ocean Blue Management, LLC

January 2006 - August 2007

Development of an international amphibious seaplane airline and charter management operation (Southeast USA and Caribbean region) under FAR Part 135.

- a. Authored a flight scheduling optimization study and then the proprietary software to upgrade a “guesswork” operation with empirical, probabilistic asset management for maximum profit.
- b. Created and installed a fleet-specific weight and balance software program providing pilots’ super-fast and accurate flight safety computations, simplified load communication with dispatchers, and the production of legal flight records.

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- c. Underwent and critiqued the annual ground and flight training program for company aircrew.
- d. Recommended “easy” marketing solutions to enhance the airline image and revenue, from affordable upgrades to cabin interior and amenities to peripheral product sales and inclement weather flight profiles.

Air Tour Customer Service/Flight Scheduling/Flight Instructor
San Francisco Seaplane Tours, Inc
March-August 2004

Supported the FAR Part 135 seaplane air tour operator (Northwest USA region) through the tourism high season, including direct sales and daily bookkeeping, customer service, load and flight scheduling, aircraft handling, refueling, and preventative maintenance including salt water corrosion control and treatment. Maintained the seaplane base facilities for safety and strict regulatory compliance in one of the most environmentally hypersensitive waterways in the country, as well as a forward base at San Francisco’s confined and highly trafficked Pier 39. Arranged contingency flight plans around frequent temporary flight restrictions (TFRs) and fast-moving fog. Fleet of DeHavilland DHC-2 and Cessna C-206 seaplanes. Primary flight instructor in the C-206.

Employment Experience

Sr. Test Engineer
STARS (USA) and AutoTrac III (International) Air Traffic Control Systems
Raytheon Network Centric Systems, Marlborough, MA
November 2006 – Present

Conducted final-gate testing and troubleshooting of both the STARS (FAA) and AutoTrac III (Canada/India) next generation air traffic control systems. Responsible for operational scenario design, live controller interface, test procedure authorship and multi-day test administration before a customer audience. Headed off numerous functionality flaws prior to delivery while advising their solution from a pilot/controller as well as engineering background. Sold-off ATC life cycle advancements such as predicted altitude alerts, airspace sector co-ownership, precision runway monitoring, simultaneous close parallel approach modality, adaptable tracking sensor hierarchy, and expanded false target suppression algorithms. ATC systems include radar and tower functionality as well as inter- and intra-facility coordination.

Sr. Systems Engineer
Forward-Based X-Band Terminal (FBX-T) Radar
Raytheon Missile Defense Center, Woburn, MA
October 2004 – September 2005, January 2006 – November 2006

Authored system software architecture and engineering requirements for the new US Missile Defense Agency’s Ballistic Missile Defense System. Developed an initial software requirements specification (SRS) contract, sequence diagrams and use cases for the Decision Logic subsystem, then oversaw the “brain” subsystem’s fast paced evolution in spiral development with the evolving FBX-T hardware,



advanced algorithms, and exoatmospheric test capabilities. Specialized in target discrimination, batched signal processing and tracker logic. Engineering tools include ROSE, DOORS, System Architect, i-Tracker, and MATLAB.

**Sr. Systems Engineer
DD-1000 Dual Band Radar**

Raytheon Integrated Defense Systems, Tewksbury, MA
October – December 2005

Selected to audit the logical architecture and system integration of the Dual Band Radar with cooperating elements of the DD-1000 battleship automation system: Organic Sensor Control, Engagement and Weapons Control, IFF, Sonar, and Electro-Optical sensors, and the ship's "smart" Command and Control. Cited and recommended technical solutions to 235 discrepancies or discontinuities across deliverable products, including over 30 functionality errors or bugs denoted as priority fixes for mission assurance.

**Airport Manager
Domestic (3)**

Vance AFB, OK, Pope AFB, NC and Beale AFB, CA
June 1997 – February 2004

Led staff of 50+ military and civilian in airfield management, ATC, and administrative sections. Managed \$12 million annual budget including large-scale airport upkeep and expansion projects start to finish. Airspace Design and Airport Ops lead representative on the military-civilian team that introduces Global Hawk UAVs into the National Airspace System (NAS). Directly responsible for 24-7 air traffic control, terminal and special use airspace coordination, FBO services/dispatch, navigation aids, NOTAMs, ATC training, TERPs & flight procedures, airport ground movement, communication procedures, flight & ground safety, emergency response, bird/wildlife control, noise abatement, airport staff & facility scheduling, FAA relations, and near-airport community planning.

**Airport Manager
International**

Al Kharj, Saudi Arabia
February – October 2001

Ran Prince Sultan AB in cooperation with a Royal Saudi Air Force (RSAF) counterpart, for the joint purpose of safe coalition operations and host nation training. Responsible for all airfield support, flight coordination, port services, ground and terminal area operations, pre-flight briefing and flight data for coalition forces in Operation Southern Watch and other multinational missions transiting the southeast Asian hub. Orchestrated, and frequently defused, mixed teams of 24 hour staff to train Saudi controllers and airfield management personnel real-time on "western" procedures, safety, and equipment. Supported a vice presidential visit under high security and consulted his staff on the skill and cultural preparedness of the RSAF to independently support coalition operations.



Air Defense Representative

Office of the Defense Representative to Pakistan, United States Embassy

Islamabad, Pakistan

March – November 2003

Subject matter expert to the US chief Military Liaison Officer, reporting to the Pakistani Air Force Chief of Staff and US Ambassador. Performed daily command and control coordination between coalition aircraft in flight, ground force forward air controllers, the Pakistani Civil Aviation Authority and military component liaisons, theater headquarters in Qatar, and upwards of fifty military and diplomatic contacts required to orchestrate every US flight, of every type, into, out of, or over Pakistan. Primarily responsible to coordinate strike approval, flight following, real-time friendly force and military-civil de-confliction, and refueling rendezvous for Operation Enduring Freedom sorties conducted along the Pakistan Afghanistan border. With British counterparts, advised at a key CAA conference in Lahore that resulted in the first Pakistani cross-border flight into India in two years since hostilities and the closure of air routes.

Director of Marketing/Commercial Pilot/Flight Instructor

Alpine Aviation, Inc

Grass Valley, CA

August to November 2004

An exposure to small business in general aviation, logged daily flight time in sightseeing, charter, and instruction in the adverse Lake Tahoe region of the Sierra Mountains. Gave the company a marketing boost by packaging and pricing complete flight training programs in place of ad hoc instruction, featuring a standardized, FAA compliant curriculum, flight and ground lesson plans, and timelines for purchase and uniform execution. Devised to move a wholly owned, managed aircraft onto a combined leaseback and fractional ownership plan, a win-win availing the in-demand aircraft type for customer rental and aligning ownership costs to the owner's infrequent use. Publicly offered the aircraft in print and open house presentations to area pilots, describing share options and terms of agreement.

Recognition

Superintendent's List, USAF Academy Class of 1996

Dean's (academic), Commandant's (leadership) & Athletic Director's combined top award

USN Outstanding Academic Achievement Award

1st in squadron and top 10% Naval Aviation students

Distinguished Graduate ATC Officer Training

1st in class and greater than 95% grade point average

USAF Outstanding Air Traffic Control Facility 1999

1st worldwide, Pope AFB Tower-Radar

Embry-Riddle Aeronautical University

Perfect 4.0 grade point average

Outstanding Engineering Achievement, Raytheon Integrated Defense Systems

Annual top five in engineering accomplishment, 2005

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President's List Valedictorian, National Aviation Academy

1st in class and perfect 4.0 grade point average

Military decorations include:

Joint Service Commendation Medal, Air Force Achievement Medal (2), Joint Meritorious Service Medal, Air Force Outstanding Unit (2), Company Grade Officer of the Quarter

Membership

Seaplane Pilots Association (SPA)

Aircraft Owners and Pilots Association (AOPA)

National Aeronautic Association (NAA)

Experimental Aircraft Association (EAA)

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