

Philip Bos, Ph.D.
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Education

Capella University

Ph.D. Business, Organization & Management
Graduated: May 2006 with Honors

Dissertation:

The Job Task Analysis of the Small Airport Manager in the Midwest Region

University of Central Missouri

M.S. Aviation Safety
Graduated: May 2001

University of Missouri Kansas City

B.L.A. Bachelor of Liberal Arts
Graduated: May 2000 with honors

Work Experience

CEO Jan. 2009 to present

Interstate Property Management, Warrensburg, MO
Property Acquisition and Management

Adjunct Professor Spring 2009

Park University, Whiteman Air Force Base, MO
Classes
Operations & Supply Management

Consultant May 2006 to present

Aviation Litigation Consultants—Kansas City, MO
Administrative Law review and action requirements for flight and maintenance violations
FAR part 135 Maintenance actions and preparation assistance
Expert witness in court cases

Adjunct Professor Aug. 2008 to Dec. 2008

University of Central Missouri, Warrensburg, MO
Classes
Air Transportation (A Management Perspective)
Aviation Law
Aircraft Ignition & Starting

Senior Consultant May 2006 to Dec 2008

Aerospace Business & Safety Management Corp, Warrensburg, MO

Business plans, litigation, curriculum development, safety management systems.

Consulting in management, organization, and leadership.

Airport acquisition and management preparation

Airport management clarification and assessment

Airport inspection and evaluation

EPA compliance requirements at airports

Aircraft appraisal and acquisition

Maintenance advisor

Assisted airport managers with construction problem resolution and management questions

Involved in the legislative process in state politics influencing aviation policies

Actively participated in the process of airport and airways expansion across the State of Indiana

Presented seminars to various civic groups emphasizing the economic role of aviation

Assistant Professor Fall 2001 to Summer 2008

Central Missouri State University, Warrensburg, MO

Aviation classes in the Graduate and Undergraduate level

FAR Part 147 Aviation Maintenance Technician Program

Summer recruitment throughout Missouri

Instructor Jan. 1998 to Feb. 2000

Maplewoods Community College, Kansas City, MO

FAR Part 147 Aviation Maintenance Technician Program

Provided Classroom training in Airframe & Powerplant courses

Provided on the job, hands on training in a laboratory environment

Assisted in manual revisions

Participated in program planning and expansion

Director of Maintenance June 1997 to Dec. 1997

Air Charter, Lees Summit, MO

Lee's Summit Airport

Crew Chief June 1996 to June 1997

Kansas City Aviation Center, Olathe, KS

Johnson County Airport

Scheduled Airlines Director of Maintenance Feb. 1996 to May 1996

Air St. Thomas, St. Thomas, U.S.V.I.

Airport Manager Feb. 1988 to Apr. 1995

Huntington Municipal Airport, Huntington, IN

Worked with contractors and engineers to provide accurate cost estimates of airport projects

Negotiated with tenants regarding hangar contracts and land rental

Updated Airport Master Plan and ALP

Supervised construction, and completion of Federally Funded Projects

Assisted the airport governing body with funding recommendations and procedures

Guided the Airport Board in the development of airport layout, taxiway, and apron utilization plans

Owner & Manager, Fixed Base Operator 1983 to 1996

TiAir Inc. Fort Wayne & Huntington, IN

Supervised Flight program

Developed safety strategies and supervised shop activities

Part 135 Director of Maintenance

Aircraft Management Supervisor (Fractional Ownership pre FOARC)

Corporate Flight Managers Fort Wayne & Huntington, IN

Pilot service and Maintenance Scheduler

Developed scheduling plans for aircraft maintenance

Provided recurrent training for mechanics and pilots

Provided comprehensive maintenance for general aviation customers up to and including corporate jets

Directed aircraft maintenance activities & ensured quality performance

Overhauled reciprocating engines

Chairman EAA Chapter 2 July 1983

Air show and Fly-in, Fort Wayne, IN

Over 5,000 attendees at the two-day event in Fort Wayne, IN

Included Air Force and Army flight and static displays, aerobatic performers, many historic, WW II, antique, and civil, aircraft on display with flight demonstrations

Aircraft Mechanic 1982

Air Wisconsin, Ft. Wayne, IN

Maintained BAe 146, DeHavilland Dash 7, and Swearingen SA 226 Metro Liners

Director of Maintenance 1981 to 1982

Bowman Aviation Fort Wayne, IN

Maintained a fleet of charter aircraft

Supported an outside customer base for aircraft maintenance

Co-Pilot Mechanic Jan 1980 to Jan. 1981

Rea Magnet Wire, Fort Wayne, IN

Maintained and flew co-pilot on Citation 550

Production Mechanic July 1978 to Dec. 1979

Boeing Airplane Company, Wichita, KS

Mechanic on Boeing 737 production line

Lead mechanic Jan. 1977 to July 1978

Cessna Commercial Jet Marketing Division, Wichita, KS

Customer delivery inspections on Cessna 550

General mechanic on Citations

Production & Modification Mechanic May 1975 to Dec. 1976

Boeing Airplane Company, Wichita, KS

Lead mechanic on B-52 modification

Air Weather Service Weather Observer, May 1967 to Dec. 1973

USAF

Coin & Currency Investment Consultant Sept. 1966 to May 1967

Coin & Currency Institute of New York, Indianapolis, IN

Professional Affiliations & Memberships

American Association of Airport Executives (Current)

National Airports Conference (NAC) board member (Current)

Aviation Accreditation Board International AABI

Experimental Aircraft Association (Current)

Academy of Management (Current)

Missouri Airport Managers Association (Current)

University Aviation Association (Current)

Aviation Association of Indiana 1988 to 1996 Board Member

Presentations

2008 Sept. Forum: *The Transportation Research Board, Airport Cooperative Research Program*. National Airports Conference. AAAE. Reno, NV.

2007 Sept. Forum: *Safety Management Systems* National Airports Conference. AAAE. Tucson, AZ.

- 2007 July. Seminar: *Minimum Standards for Airports*. Kansas Airport Association. Garden City, KS.
- 2007 Apr. Seminar: *Minimum Standards and other important documents for Airports*. Missouri Airport Managers Association. Lake Ozark, MO.
- 2006 Oct. Forum: *A very good time for Very Light Jets?* National Airports Conference. AAAE. New Orleans, LA.
- 2005 Oct. Forum: *Large & Medium Hub Airports*. National Airports Conference. AAAE. Tampa, FL.
- 2001 Apr. Forum: *Best practices for airport managers*. FAA Regional Conference. Kansas City, MO.
- 1994 Oct. Forum: *The future of small airports in Indiana*. AAI Annual Conference. Bloomington, IN.
- 1988 –1994 Presentations to numerous civic organizations about local municipal airports. Presentations included economic impact, airport expansion projects, the value of the community airport, and environmental concerns at airports.

Student Manuals

I wrote and illustrated class and lab workbooks providing procedures and drawings for labs. The workbooks outline the class, indicate the timetables, and provide the students with a schedule of responsibilities in accordance with the CMSU FAR part 147 manual. In addition, the workbooks guide the students in paperwork required by the FAA while providing the students with procedures for labs. The class and lab workbooks supplement the lecture by providing easy note taking and systematic instruction in the labs.

Bos, P. A. (2007). Aircraft hydraulic systems

Bos, P. A. (2004). Aircraft ignition and starting

Bos, P. A. (2003). Aircraft reciprocating engines shop and laboratory manual

Bos, P. A. (2003). Aircraft engine test shop and laboratory manual

Bos, P. A. (2002). Metal Airframe shop and laboratory manual

Bos, P. A. (2002). Basic Airframe shop and laboratory manual

Publications

Wetmore, M. J., Lu, C-t, & Bos, P. (2008). Modeling the balance between standardization and innovation in a flight school. *Journal of Aviation/Aerospace Education and Research*. Vol. 17, Number 3. ERAU.

- Wetmore, M. J. & Bos, P. (2008). Conflict Management Strategies in the Flight Training Environment. *International Journal of Applied Aviation Studies*. 7 (2). FAA
- Bos, P. A., & Lu, C-t. (Aug-Sept 2007). Safety management system: A Primer. *Airport Magazine*. 19 (5). AAAE
- Lu, C-t., Bos, P. & Caldwell, W. (2007). Aviation System Safety Management Model (ASSMM). *International Journal of Applied Aviation Studies*. 7 (1). FAA.
- Bos, P. A. (2006). Dissertation. *The job task analysis of the small airport manager in the Midwest*.
- Bos, P. A. (2001). Policy making in the nation's capitol. *Midwest Aviation Journal* 7 (2).

White Papers

- Wetmore, M. & Bos, P. (2006). *Spatial Disorientation over the Atlantic Ocean: A Case Study in Single Pilot Resource Management*.
- Wetmore, M., Bos, P. (2006). *Conflict management strategies in the flight training environment: An applied-qualitative-phenomenological study*.
- Bos, P. (2005). *Taney County Missouri: Acquisition of the College of the Ozarks airport by Taney County*.

Research Problems, Special Projects.

Year	Month	Person	Project	Grad/UG Honors
2006	(Aug)	Ashley Hayes	Paper on Airport Management	G
2006	(Aug)	Adam See	Paper on Airport Management	G
2006	(Aug)	Neil Maceachran	Paper on Airport Management	G
2006	(Aug)	Akhil Menon	Airport operations & capacity	G
2006	(Aug)	Ashley Hayes	Airport Management Seminar	G
2006	(Aug)	Adam See	Airport Management Seminar	G
2006	(May)	Neil Maceachran	Airport Management Seminar	G
2006	(May)	Hassan Ahmed	Airport Management Seminar	G
2006	(May)	Ben Durham	Airport Management Seminar	G
2006	(May)	Ryan Cowen	Aircraft Restoration & Rebuilding	G
2006	(Jun)	Brian Biller	Airspace & Navigation Systems	Honors
2005	(Dec)	Nathan Griffith	Aerodynamics Project	UG
2005	(Dec)	Michelle Mwangemi	Airport management research	G
2005	(Aug)	Rodney Inman	Aircraft Restoration	UG
2005	(July)	Nathan Griffith	Design - Build Ultralight	Honors
2005	(May)	Phil Liming	Airport Management Research	Honors
2005	(May)	Mike Diekman	Military aviation career	G
2004	(Dec)	Patrick Chevalier	Airport Management research	G

2004	(Mar)	Ronald Gulick	Aviation Management	UG
2003	(Aug)	Jason Morris	Aviation Management	G
2002	(Dec)	Walter Hollenbeck	Safety on the Airport Ramp	G
2002	(May)	Luke Piper	Bond issues and Airport Finance	UG
2001	(Dec)	Connie Wilson	Report on Summer Internship	G
2001	(Dec)	Connie Wilson	Airport business plan	G

Teaching Experience

Aviation Safety Program Management (Graduate)

Provides the student with prevention information and activities necessary to enable the graduate to perform effectively as an aviation safety program manager

Airport Management (Graduate & Undergraduate Levels)

Airport operations and management principles and applications Personnel, security, budgeting, contracts, maintenance and public relations

Airport Management Seminar (Graduate & Undergraduate Levels)

Students attend a meeting hosted by the AAAE, either the annual convention or the National Airports Conference

Federal Aviation Regulations Explained (Graduate & Undergraduate Levels)

Delves into the history of Federal Aviation Regulations, explains the United States Code of Federal Regulations in the context of maintenance, flight, and airport operations

Aviation Law (Graduate & Undergraduate Levels)

Legal foundations with the federal and state regulatory functions which influence aviation and those who work within the industry

Aviation Management (Graduate & Undergraduate Levels)

Aviation/airport management and administrative functions, issues, and problems involving both large and small airports, heliports, sea plane bases and related fixed base operations

Operations & Supply Management (Graduate & Undergraduate Levels)

Production and Operations Management: study of the design. Planning and operations and control of manufacturing, processes, material management, inventory quality control systems, work measurement and production standards.

Aviation Safety (Graduate & Undergraduate Levels)

Develops knowledge of contributing factors affecting aviation safety while providing control methods and techniques that help to reduce accidents in the aviation industry

Air Transportation (Graduate & Undergraduate Levels)

Air Transportation is designed to introduce aviation professionals to the airline industry, its history, management functions, and business practices.

History in the Context of Aviation (Graduate & Undergraduate Levels)

Explained how major events, people, and changing technologies in the aviation industry correlated and interacted with other industries in the development of the present day air transportation system

Air Operations Management (Undergraduate)

Challenges the student to perform as an effective member of an air operations management team using critical thinking, decision making and ethics

Air Conditioning and Pressurization Systems (Undergraduate)

Theory and practice with pneumatic, anti-icing, cabin pressurization, and air conditioning systems

Basic Airframe Maintenance (Undergraduate)

Selecting airframe materials, repairing, rigging, and preservation of fabric covered airframes

Basic Electricity (Undergraduate)

Introduces the student to diverse forms and uses of electrical circuits and explains logic circuits, AC and DC current, reactance, inductance, capacitance, wiring diagrams, and ohms law

Carburetion and Lubrication Systems (Undergraduate)

Operation of fuel, induction and lubrication systems type, composition and characteristics of various fuels and oils inspection, maintenance, and overhaul of fuel, induction and lubrication systems' components

Complex Aircraft Systems	(Undergraduate)
Theory, operation and repair of complex aircraft fuel systems, position and warning systems, ice and rain protection systems	
Electrical Systems	(Undergraduate)
The theory, operation, and repair of aircraft electrical systems and components	
Engine Instruments and Systems	(Undergraduate)
Theory and practice in the operation and repair of aircraft engine instruments, fire detection and extinguishing systems, engine cooling systems and exhaust systems	
Engine Testing	(Undergraduate)
Theory and practice in installing, trouble shooting, testing, and repairing of aircraft engines	
Ignition & Starting Systems	(Undergraduate)
Theory plus practice in the operation, maintenance, and overhaul of ignition and starting systems as well as their components	
Aircraft Inspection, Weight and Balance	(Undergraduate)
Theory and practice of repairing, maintaining, ground handling, jacking, weighing aircraft, and performing inspection	
Instrument Systems	(Undergraduate)
Theory and practice of installing, operating, marking, adjusting, and interpreting aircraft instruments	
Metal Airframe Processing	(Undergraduate)
Theory and practice in the construction and repair of metal airframes	
Nondestructive Inspection and Testing	(Undergraduate)
Magnetic particle, eddy current, dye penetrant, ultrasonic vibration analysis, acoustics, radiographic, infrared, and liquid crystal methods of nondestructive inspection	
Propellers and Components	(Undergraduate)
Propellers, governors, and de-icing systems; inspection, servicing, and overhaul of propellers	
Radio Installation and Operation	(Undergraduate)
Theory and practice with communication and navigation radio equipment	

Reciprocating Power Plants

(Undergraduate)

Aircraft reciprocating power plants, construction, operation, overhaul, and engine logs, laboratory experience in disassembling, cleaning, inspection, and assembly

Professional Licenses, Certifications, and Schools

Inspection Authorization Renewal

Federal Aviation Administration Continuing Education

(Attended the FAA sponsored seminars in Kansas City, MO from 1997 to 2009)

Advanced Composite Structures: Fabrication & Damage Repair Phase II

Abaris Training, Reno, NV (2004)

Advanced Composite Structures: Fabrication & Damage Repair Phase I

Abaris Training, Reno, NV (2004)

Westwind 1121 Second in Command Certification

D&J Aviation, Huntington, IN (1995)

Cessna 421 Initial Training

SimCom Flight Academy, Orlando, FL (1993)

Jet Commander Second in Command certification

D&J Aviation, Huntington, IN (1993)

Flight Instructor Instrument Airplane

American Flyers FAA Approved Part 141 School, Pompano Beach, FL (1992)

Flight Instructor Airplane

American Flyers FAA Approved Part 141 School Pompano Beach, FL (1992)

Fundamentals of Instruction

American Flyers FAA Approved Part 141 School Pompano Beach, FL (1992)

DeHavilland DHC-7 Maintenance Procedures and Training

DeHavilland Technical Instruction, Fort Wayne, IN (1982)

Inspection Authorization

Kings School of Aeronautics. Memphis, TN (1981)

Cessna Citation 550 Second in Command certification

Flight Safety, Wichita, KS (1980)

Boeing Electrical Systems School
Boeing, Wichita, KS (1979)

Multi-Engine Rating
United Beechcraft, Wichita, KS (1978)

Cessna Citation Maintenance Instruction
Flight Safety, Wichita, KS (1978)

Commercial Pilot Certificate
United Beechcraft, Wichita, KS (1978)

Instrument Rating
United Beechcraft, Wichita, KS (1977)

Boeing Blueprint Reading
Boeing, Wichita, KS (1975)

Airframe & Powerplant Certificate
Spartan School of Aeronautics, Tulsa, OK (1975)

Fundamentals of Electronics
Spartan School of Aeronautics, Tulsa, OK (1974)

NCO Leadership School
United States Air Force, Norton AFB (1971)

Weather Observers School
United States Air Force, Chanute AFB (1967)

Technical and Specialized Skills

Total Flying time	3000+ hours
Pilot-in-Command	2400+ hours
Multi-engine Pilot-in-Command	1600+ hours
Turbo-jet Second-in-Command	300+ hours
Airframe and Powerplant Mechanic	Since 1975
Inspection Authorization	Since 1981