Curriculum Vitae for David Downey

April 2016

AREAS OF EXPERTISE:
Accident Investigation
Airplane Certification
Airplane Design (14 CFR part 23 & 25)
Airplane Manufacturing
Airplane Production Flight Test
Aviation Certification (14 CFR part 1, 21, 183)
Aviation Flight Operations (14 CFR part 91 & 135)
Aviation Flight Safety
Aviation Maintenance (14 CFR part 43)
Aviation Systems Engineering
Safety Management Systems
Experimental Aircraft
Experimental Flight Test
Experimental Flight Operations
Federal Aviation Administration – FAA
Helicopter/Rotorcraft Certification
Helicopter/Rotorcraft Design (14 CFR part 27, 29 & Power lift)
Helicopter/Rotorcraft Engineering
Helicopter/Rotorcraft Manufacturing
Helicopter/Rotorcraft Production Flight Test
Risk Management (ISO 31000)

ACADEMIC BACKGROUND:
University of Tennessee Space Institute, MS, Aerospace Management
US Navy Test Pilot School, Graduate, Helicopter & Airplane Experimental Flight Test
Embry-Riddle Aeronautical University, BS, Aeronautical Technology
US Army Command & General Staff College
Defense Acquisition University Program Managers Course

PROFESSIONAL WORK HISTORY:

Consultant, Downey Aviation Service,
October 2012 – Present Dallas-Ft. Worth TX

President, North America, Aerosafe Risk Management (Contract employment)
February 2013 – September, 2013 Washington, DC

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VP, Systems Engineering, Flight Safety/Accident Investigation and Certification, Bell Helicopter
November 2011 – October 2012, Hurst, Texas

VP, Flight Operations, Flight Safety/Accident Investigation and Civil Certification, Bell Helicopter
August 2008 – November 2011 (3 years 4 months) Hurst, Texas

Aerospace Board Member, Society of Automotive Engineers (SAE)
May 2001 – September 2010 (9 years 5 months)

Rotorcraft Directorate Manager, DOT/FAA
June 2001 – September 2008 (7 years 4 months) Ft. Worth, Texas

Government Co-Chair International Helicopter Safety Team, FAA
June 2005 – July 2008 (3 years 2 months) Ft. Worth, Texas

Special Committee Government Co-Chair, RTCA
January 2000 – October 2001 (1 year 10 months) Washington D.C. Metro Area

Assistant Manager, Engine & Propeller Directorate, FAA
July 1998 – June 2001 (3 years), Burlington MA

Flight Test Pilot, Boston Aircraft Certification Office, Engine & Propeller Directorate, FAA
July 1995 – July1998 (3 years), Burlington, BA

Chief of Flight Test, Army Engineering Flight Activity, U.S. Army
Experimental Test Pilot - various roles including Exchange Officer UK
July 1986 – October 1995 (9 years 4 months) Edwards AFB, CA

Sr. Pilot, Rotary Wing Exchange Officer, Rotary Wing Test Squadron, UK Ministry of Defence,
1991 – 1993 (2 years) Boscombe Down, UK

US Army Helicopter/Airplane Pilot
1974 - 1995

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DOWNEY
AVIATION SERVICES

SPEAKING ENGAGEMENTS

2015
- CHC Safety & Quality Summit – Vancouver – Cockpit Automation Training

2014
- Helicopter Safety Advisory Conference – New Orleans, LA Automated Flight Decks
- Human Factors & Safety Management Systems Conference – Dallas, TX – Automated Flight Decks
- Embry Riddle Aeronautical University – Daytona Beach, FL – Leadership
- CHC Safety & Quality Summit – Vancouver – Cockpit Automation Training

2013
- CHC Helicopter Safety & Quality Summit - Vancouver - Leadership

2012
- CHC Helicopter Safety & Quality Summit - Vancouver - Leadership

2011
- CHC Helicopter Safety & Quality Summit – Vancouver - Leadership
- Textron Insurance Brokers - Montreal - Product Integrity
- HeliTech - Duxford 2011, UK - Bell Product Safety

2010
- North Central Council of Governments -Ft. Worth, TX - Aviation Summit
- EASA Rotorcraft Forum - Cologne FRG - WAAS Integration & Testing for Public Use
- CHC Helicopter Safety & Quality summit - Vancouver - Leadership
- European Helicopter Operation Committee - Vienna - Bell Safety update

2009
- US Trade & Dev. Agency - Washington DC - India Project Success
- NTSB Public Hearing - Washington DC - Technical Panel Witness
- EASA Rotorcraft Symposium - Cologne FRG - Bell Safety Initiative
- Oil & Gas Producers - UK - Safety Update and discussion
- Society of Hispanic Engineers - Ft. Worth TX - Luncheon Keynote

2008
- International Helicopter Safety Team (IHST) - Dubai, UAE - Program Update and Regional Challenge
- CHC Helicopter Safety & Quality summit - Vancouver - Keynote
- IHST - Estoril, Portugal - European Safety Conference Keynote

2007
- CHC Helicopter Safety & Quality summit - Vancouver - IHST update
- IHST - Sao Paulo, Brazil - Program Update and Regional Challenge
- ICAO Regional Authority Meeting - Thailand - IHST update
- IHST - Australia - Program Update and Regional Challenge

2006
- Manufacturing & Repair Parts Association - Tempe, AZ - Damage Tolerance
- CHC Helicopter Safety & Quality summit - Vancouver, BC - Keynote address

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- IHST - Delhi, India - Keynote Address

2005

- AHS International Meeting - Australia - Commercial Aviation Safety Team

2004

- Manufacturing & Repair Parts Association - Tempe, AZ - Regulatory Update
- Aircraft Fire & Cabin Safety Conference - Portugal - FAA Safety Update

2003

- American Helicopter Society Intl Meeting - Australia - Commercial Aviation Safety Team

RELATED TRAINING COURSES:

US Army/US Navy:

Initial Entry Rotary Wing Qualification
AH-1 Cobra Qualification Course
CH-47 Chinook Qualification Course
CH-46 Qualification
Fixed Wing Qualification Course
OV-1 Mohawk
Beech King Air
T-34C Turbo Mentor
UH-60 Blackhawk Qualification Course
OH-6 Cayuse Qualification (local)
OH-58 Kiowa Qualification (local)
Westland Scout Qualification
HC Mk 1 Puma Qualification Course
Sea King Helicopter HAR3/HC4/5/6/7 variants Qualification
Aerospatiale Gazelle Qualification
Wessex (S-58T) Qualification
Westland Lynx (Mk 3/4/7/8/9 variants) Qualification

FAA Training courses:

S-76 Qualification
SK-70 Type Rating – FAA
Kaman K1200 qualification
DeHavilland DHC-8 Type Rating – FAA
DC-3 Type Rating - FAA
Bell Models 206/407 qualification

DOWNEY
AVIATION SERVICES

CERTIFICATES/RATING/LICENSES

FAA Airline Transport Rating
Airplane Multi-engine Land
DC-3; DHC-8
FAA Commercial Pilot Rating
Airplane single-engine Land & Sea; Airplane multi-engine Sea
Rotorcraft-Helicopter; Instrument Helicopter
SK-70
FAA Ground Flight Instructor

PROFESSIONAL ORGANIZATIONS

- Society of Experimental Test Pilots - Associate Fellow
- American Helicopter Society International
- Helicopter Association International
- Army Aviation Association of America

PUBLICATIONS:

- Bio-Fuels in Rotorcraft, RotorBreeze - Bell Helicopter, July 2011
- Bio fuel - Oh me Oh my, HeliProps – Bell Helicopter, June 2011
- International Helicopter Safety Team, RotorBreeze – Bell Helicopter, June 2009
- FAA Safety Analysis Team Report, FAA, November 1997
- Natural Icing RE-Evaluation of the EH-60A Quick Fix Helicopter, US Army, 1989
- Airworthiness & Flight Characteristics Evaluation of the EH-60A (Quick Fix) Helicopter, US Army, October 1988
- Artificial & Natural Icing Tests of the UH-60A Helicopter configured with the XM-139 Multiple Mine Dispensing System (Volcano), US Army, March 1988
- UH-60 A Rotor Systems Evaluation Phase 1, US Army 1988
- XOH-6A Notar Preliminary Flight Evaluation, US Army, 1986

Award: Tony LaVier Award, Society of Experimental Test Pilots for Lifetime Achievement in Flight Safety.

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