

Curriculum Vitae
Alexander (Alec) R. Moffat

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Personal Data:

Date of Birth: February 18, 1966
Nationality: Canadian

Curriculum vitae relating to the profession of Aircraft Accident Investigator.

Education:

- December 2004** **Rotorcraft Accident Investigation Course - US Transportation Safety Institute**
Completed the Rotorcraft Safety and Accident Investigation Course at Bell Helicopters, Fort Worth, Texas. Presented by the Federal Aviation Administration and the Transportation Safety Institute.
- March 2002** **Aircraft Accident Investigation Course - University of Southern California**
Completed the Aircraft Accident Investigation course at the University of Southern California
- March 2002** **Investigative Interviewing - Justice Institute of British Columbia**
Techniques for interviewing witnesses, taking formal statements and forensic interviewing skills.
- May 1997-
June 1997** **Canadian Air Regulations Course**
Completed a course on the Canadian Air Regulations through evening studies at the British Columbia Institute of Technology
- January 1993-
April 1994** **Aircraft Maintenance Engineer, Avionics Diploma - British Columbia Institute of Technology**
Studies included aircraft systems, avionics, electronic and electrical distribution systems. Graduated at the top of the class.
- November 1991-
June 1992** **Electronics Technology - British Columbia Institute of Technology**
Studies included AC/DC circuits and devices. Analogue and digital circuits and theories.
- September 1984-
February 1986** **Institute of Communication Arts**
Studies included interpersonal communication skills. Music business management, contract and legal requirements, audio engineering and production. Obtained Audio Communications Media Certificate.

Experience:

**May 2001 –
Sept. 2006**

Transportation Safety Board of Canada

Accident investigator on over 250 accidents and incidents involving large commercial fixed and rotary wing transport and private aircraft. Investigator In Charge (IIC) on 50 of these 250 investigations. Developed and presented accident techniques at Transportation Safety Board workshops. I have been designated as the Accredited Representative to accidents in the Guyana and Suriname. During my employment with the TSB, I have participated with the NTSB, Bureau d'enquetes et d'analyses (BEA), and the United Kingdom Air Accidents Investigation Branch (AAIB) in several investigations that involved aircraft or aircraft components sent to Canada for examination and/or testing.

**July 2001 –
July 2005**

Owned and operated Transport Canada approved maintenance organization # 87-01

Approved Maintenance Organization 87-01 was approved for avionics installations, failure analysis and repairs on a variety of light aircraft.

**Feb. 1998-
December 2001**

British Columbia Institute of Technology

Instructor, on an on call basis, for the Avionics Technology program. I was also avionics program development advisor into the development and structure of the avionics course.

**Sept. 1999 –
July 2001**

Air Canada/Canadian Airlines

Technical instructor and course developer for various aircraft courses. Prepared and delivered course material to Air Canada and other world airlines. Transferred to the Technical Training Department as an Avionics Systems Instructor/Developer. Currently hold avionics endorsement on the Boeing 737, and Airbus A320.

**March 1998-
Sept. 1999**

Canadian Airlines International

Line maintenance Avionics Engineer. Perform daily maintenance tasks as required. Perform troubleshooting, repair and failure analysis of all avionics systems needed in order to dispatch the aircraft safely and on time. I performed maintenance on Boeing 747-400, McDonald Douglas DC-10-30, Airbus A319, A320 and A321, Boeing 737-200, -300 and -500 and Boeing 767-200 and -300.

**April 1994-
March 1998**

Maxcraft Avionics

Installed and troubleshot various types of avionics equipment. Tested and repaired VHF, UHF FM and AM communications equipment. Navigation equipment, weather radar and electrical systems related to power distribution and hydraulics. Installed and repaired instruments and engine indicating systems. Troubleshot and repaired autopilot systems. Investigated incidents and failure of all avionics and electrical systems. Involved with certification of avionics installations which included design, installation and changes required by Transport Canada in order to complete the certification process. Managed and maintained a satellite shop at the Langley airport. Duties at Langley were manpower scheduling, prioritizing maintenance tasks and resolving employee and customer concerns.

- January 1990-
April 1994** **Camino Bike Rider** (Motorcycle and Rider Accessories)
Responsibilities included retail and wholesale sales, shipping and receiving, inventory control. Installed automotive alarms and maintained the businesses computer system.
- March 1986 -
August 1988** **Studio 86 - Expo 86 (Vancouver) and Edmonton**
Audio engineer and studio manager. Duties included recording and producing bands and singers, day to day business activities.

Skills/Licenses and specialized training

- * Transport Canada Canadian Air Regulations course
- * PACE Inc. 200 advanced soldering certificate
- * Transportation Safety Board of Canada - Integrated Safety Investigation Methodology
- * Transportation Safety Board of Canada - Failure analysis
- * Transportation Safety Board of Canada - Photography techniques for accident investigation
- * Aircraft Accident Investigation, University of Southern California, Los Angeles
- * Rotorcraft Safety and Accident Investigation, US Department of Transportation, - Transportation Safety Institute, Dallas Texas (FAA)
- * Transportation Safety Board of Canada - Human Factors Investigations
- * Investigative Interviewing - Justice Institute of British Columbia
- * Human Performance in Maintenance - System Safety Services
- * Radio operator's certificate (aeronautical)
- * Honeywell /Collins Aviation Certificate in Proline 4 Line Maintenance
- * Various Allied Signal Avionics Certificates

Qualifications

Investigator; Appointed by the Chairman of the Transportation Safety Board of Canada by the authority of the CTAISB act (2002-2006). Full member of the International Society of Air Safety Investigators.

Aircraft Maintenance Engineer License, valid for category E - all aircraft, and endorsed for Boeing 737-200, -300 and -500, Airbus A319, A320 and A321.

Private Pilot License, ground school.

TSB Investigations

Participated in approximately 250 Transportation Safety Board investigations. Significant investigations included:

January 17, 2002 - In-flight Entertainment System Fire
Vancouver Airport
Airbus A330
TSB of Canada (A02P0010)
Role - Investigator In Charge

February 01, 2002 - Engine Nose Cone Detachment In-flight
Abbotsford Airport
Boeing 737-200
TSB of Canada (A02P0021)
Role - Investigator In Charge

May 13, 2002 - Cargo Bay Fire
Toronto/Lester B. Pearson International
Boeing 767-300 C-GHML
TSB of Canada (A02O0123)
Role - Regional Technical Investigator

October 20, 2002 - Engine Power Loss in Flight
Timmins, Ontario 40 nm West
Airbus A340-300 B-HXN
TSB of Canada (A02P0261)
Role - Investigator In Charge

May 20, 2002 - Loss of Control and Collision With Terrain
Three Valley Gap, British Columbia
Bell 206L4
TSB of Canada (A02P0096)
Role- Regional Technical Investigator

March 11, 2003 - In-Flight Engine Failure
Kelowna Airport, British Columbia
Boeing 737-200 C-FTWJ
TSB of Canada (A03P0054)
Role - Investigator In Charge

July 16, 2003 - Collision with Terrain
Cranbrook, British Columbia 2.5 nm south
Lockheed L-188 Electra C-GFQA
TSB of Canada (A03P0194)
Role - Regional Technical Investigator

December 28, 2003 - Drive-Belt Failure and Collision with Terrain
Fairmont Hot Springs, British Columbia, 15 nm SW
Robinson R44 Raven II, N313AL
TSB of Canada (A04P0422)
Role - Regional Technical Investigator

February 06, 2005 – Loss of Control and Collision with Terrain
Georgetown Guyana
Eurocopter AS350 B2 C-GNMJ
TSB of Canada (A05F0025)
Role - Accredited Representative and Regional Technical Investigator to the Guyana Government

August 02, 2005 – Loss of Control and Collision with Terrain
Terrace, British Columbia, 35nm NW
MD Helicopters MD500D
TSB of Canada (A05P0184)
Role - Investigator In Charge

November 03, 2005 – In-flight Break-up
South Bentinck Arm, British Columbia
Boeing BV107 Vertol
TSB of Canada (A05P0269)
Role – Investigator In Charge

June 15, 2006 – Landing Gear failure and loss of directional control
Suriname
DeHavilland DHC-3 – Twin Otter
Suriname Government
Role - Accredited Representative to the Suriname Government

R.J.Waldron Investigations

September 20, 2003 – Loss of control
Arizona, Grand Canyon West
Eurocopter AS-350B2, N270SH
Deposition taken November 19, 2007

August 13, 2004 – Drive Belt Failure
McIvor Lake, British Columbia
Robinson R22, C-FHGH

September 17, 2004 – Engine power loss
Aspen, Colorado
Bell 214B-1, N214B

March 5, 2007 – Control failure
Wadi Al-Dewasir, Saudi Arabia
Kawasaki BV-107

September 17, 2007 – Engine deceleration
Aspen, Colorado
Bell 214B-1, N214B

October 27, 2005 - Engine failure
Oslo, Norway
Saab 340, C-FTLW