

# DESMOND C. BROPHY

CD, MSM (USAF), BEng, MEng, MDS, Lieutenant-Colonel (Retired) RCAF  
1603 N Graystone St, KS 67230 USA, [dbrophy1@telus.net](mailto:dbrophy1@telus.net), 316-558-0041

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## FLIGHT TEST EXPERIENCE

2011-2013 Twin Otter:

- As Commanding Officer of 440 Squadron, RCAF, supervised the implementation of a "glass cockpit"/EFIS/FMS avionics suite into the Twin Otter fleet
- Oversaw implementation of Special Purpose Flight Permits for operational/developmental test flights
- Coordinated development of technical and training publications/plans for the upgraded avionics suite

2006-2009 F-16 Fighting Falcon Developmental/Experimental Test Pilot:

- Lead Project Pilot for 6 full scale Avionic, Propulsion, and Flight Control Test Projects
- 61 Low, Medium, and High Risk Developmental/Experimental Flight Test Sorties
- 25 Airborne Engine Shutdown/Restarts
- 214 High angle of attack, departure-from-controlled-flight tests and/or demonstrations
- Presented "F-16 Engine Testing in the Failed State" Conference Paper, SETP 2009 Symposia

2005-2006 United States Naval Test Pilot School Class 129 (**Top Graduate**)

2003-2004 CF-18 Avionics Upgrade Air to Ground Role Implementation Team Member / Maintenance Test Pilot

1999-2000 CT-114 Tutor Maintenance Test Pilot

## AVIATION CAREER PROFILE

2016-Present: Experimental Test Pilot, Bombardier Aerospace  
2015-2016: Class 2 Aerobatic and multi-engine flight instructor, Calgary Flying Club  
2013-2016: Boeing 737NG Pilot, WestJet Airlines  
2011-2013: CC-138 Twin Otter (Training Captain / Off-strip, Austere Strip, Ice Operations)  
2006-2009: Exchange Officer with USAF as F-16 Developmental Test Pilot / F-16 Instructor Pilot  
2005-2006: United States Naval Test Pilot School Class 129  
2001-2005: CF-18 Combat Ready 4-Ship Tactical Lead / Tactical Instructor  
2000-2001: CF-18 Basic Fighter Pilot Course  
1998-2000: Canadian Forces CT-114 Jet Instructor Pilot

## SUPERVISORY EXPERIENCE

2011-2013: **Commanding Officer** – 440 Transport Squadron, CC-138 Twin Otter  
2009-2010: Deputy Wing Operations Officer – 4 Wing Cold Lake  
2006-2009: **Assistant and Acting Director of Operations**, 416<sup>th</sup> Flight Test Squadron, USAF  
2003-2005: Deputy Squadron Operations Officer — 441 Tactical Fighter Squadron, CF-18  
1998-2000: Senior Academic Instructor & A2 Flight Instructor, 2 Canadian Forces Flight Training School

## EDUCATION

Masters of Defence Studies, Middle Eastern International Relations—Canadian Forces College 2011  
Canadian Forces Joint Command and Staff Program (**Top Graduate**) 2010-2011  
Masters of Mechanical Engineering—University of Calgary (**Thesis Published**) 1994-1995  
Bachelor of Chemical Engineering—McGill University (**Top Graduate with Great Distinction**) 1988-1992

## AWARDS AND RECOGNITIONS

Queen's Diamond Jubilee Medal for Leadership and Service, RCAF 2013  
**1 of 16 Finalists from 5,300+, Canadian Space Agency Astronaut Recruitment Campaign** 2009  
USAF Meritorious Service Medal for Dedication and Leadership During Flight Test 2009  
**Top DT-II Flight Test Final Project**, US Naval Test Pilot School, Saab JAS-39 Gripen 2006  
**Top Graduate US Naval Test Pilot School Class 129** 2006  
Canadian Forces Air Command Commander's Commendation, CF-18 Modernization Project 2005  
**Top Graduate in Academics**, CF-18 Basic Fighter Pilot and Fighter Lead In Training Courses 2000, 2001  
Canadian Legion Medal For Leadership (**Peer Selected**) 1997  
**Top Graduate**—Canadian Forces Primary and Basic Jet Pilot Courses 1994, 1996

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### **FLIGHT TIME**

Total	6585 hrs
PIC	3207 hrs
Jet	5371 hrs
Multi-Engine	3804 hrs
Fighter/Trainer	3023 hrs
Boeing 737NG	2347 hrs
Taildragger	349 hrs
Twin Otter	397 hrs
Instructional	631 hrs
Skis	181 hrs
Glider	116 hrs

### **RATINGS**

ATPL—AA341200  
TC Group 1 Instrument Rating  
Boeing 737NG Type Rating  
TC Glider Pilot License  
Member, Society of Experimental Test Pilots  
Global Express Type Rating  
TC Class 2 Aerobatic Instructor Rating  
RCAF A2 Instructor Rating (Previous)

### **AIRCRAFT CAPTAINCIES**

Twin Otter (Ski & Austere Wheel Qualified)  
CF-18 Hornet (4-Ship Tactical Lead)  
F-16 Falcon (Developmental Test Pilot)  
T-38 Talon  
T-2 Buckeye  
CT-114 Tutor (A2 Category Instructor Pilot)  
Piston Single & Multi Engine  
-Citabria/Scout/Grumman Yankee  
-Seneca/Twin Comanche

### **UNIQUE FLIGHT TEST AIRCRAFT FLOWN AND EVALUATED**

MiG-15, JAS-39B Gripen, Beaver, Otter, Lear Jet, CT-133 Silver Star, Grumman Albatross, Pitts S2B, RV-6, Lancair, Boeing Stearman, T-28 Trojan, C-195, C-180 Floats, T-6 Harvard I & II, P-3 Orion, Saab 105, T-37 Tweet

### **FLIGHT TECHNICAL PUBLICATIONS**

Gordon, Bat-Ami, and Brophy, Desmond C., Major, Canadian Forces, *Digital Electronic Engine Control (DEEC) 8.1.0 Logic Upgrade (DLU) For F100-PW-229 Engines Installed in the F-16 Aircraft*, AFFTC-TR09-09, Air Force Flight Test Center, Edwards AFB, California, March 2009.

Zurbano, Manuel, and Brophy, Desmond C., Major, Canadian Forces, *F-16 Combined Altitude Radar Altimeter (CARA) Signal Data Converter (SDC) Flight Test and Evaluation*, AFFTC-TR-08-55, Air Force Flight Test Center, Edwards AFB, California, April 2009.

Jones, Richard, and Brophy, Desmond C., Major, Canadian Forces, *F-16 Block 30 Theater Airborne Reconnaissance System (TARS) Data-Link Capable (DLC) Developmental Test and Evaluation*, AFFTC-TR-07-13, Air Force Flight Test Center, Edwards AFB, California, July 2007.

Nguyen, Sonbang, and Brophy, Desmond C., Major, Canadian Forces, *F-16C/D Block 30 Software Capabilities Upgrade (SCU) 5.1 Modernized Programmable Signal Processor (MPSP) Design Tryout (DTO) Flight Test and Evaluation*, AFFTC-PRR-07-02, Air Force Flight Test Center, Edwards AFB, California, May 2007.

Lang, John F., and Brophy, Desmond C., Major, Canadian Forces, *Po Sheng (Taiwan) F-16A/B Tape 6.1 Avionics System Developmental Test and Evaluation*, AFFTC-TR-08-02, Air Force Flight Test Center, Edwards AFB, California, May 2008.

Hayashi, Garrett Y., and Brophy, Desmond C., Major, Canadian Forces, *Peace Sky (Poland) F-16 Block 52 Developmental Test and Evaluation*, AFFTC-TR-08-01, Air Force Flight Test Center, Edwards AFB, California, July 2008.

### **ACADEMIC PUBLICATIONS**

Kentfield, J.A.C., and Brophy, D.C., *The Predicted Performance of Cierva-Rotor Wind Turbines*, Wind Engineering, Volume 21, Issue, pp. 89-101, 1997

### **PERSONAL DATA**

Citizenship – Canadian

Marital Status – Married to Janice Brophy with one daughter, Kathleen Anne Brophy

Language Profile – Functionally Bilingual in French (prior Government of Canada E/E/E profile)

Prior Canadian Armed Forces Top Secret security clearance