

## **CURRICULUM VITAE**

### **DIOGO SILVA CASTILHO**

#### **PERSONAL INFORMATION**

Born: Rio de Janeiro, RJ, Brazil in 1979  
Citizenship: Brazilian  
Email: [castilho@mit.edu](mailto:castilho@mit.edu), [castilhods@msn.com](mailto:castilhods@msn.com)



#### **EDUCATION**

- Sept 2015 – Present      Ph.D. student at AeroAstro Department/MIT  
Massachusetts Institute of Technology, Boston, MA, USA.
- Mar 2013 – Apr 2015      Master's in Science in Production Engineering  
Aeronautics Institute of Technology, São José dos Campos, SP, Brazil  
Thesis: STAMP analysis on light single-propeller aircraft during takeoff  
with crosswinds
- Aug 2011 – Oct 2011      Specialization: Flight safety  
CENIPA, Brasília, DF, Brazil  
Final project: Investigation of the FAB-2018 accident
- Jan 2011 – Jul 2011      Master in Business Administration: Public Management  
UFF, Rio de Janeiro, RJ, Brazil  
Thesis: Variables that affect personal motivation to choose a career in  
flight testing
- Feb 2009 – Apr 2010      Flight Test Course  
Research and Flight Test Institute  
Final project: Mirage 2000 performance, handling qualities and systems
- Mar 2004 – Jun 2005      Specialization: Electromagnetic environment analysis  
Aeronautics Institute of Technology, São José dos Campos, SP, Brazil  
Final project: Electronic warfare resources of SCP-01 radar
- Feb 1997 – Dec 2000      Bachelor's Degree in Aeronautical Science  
Air Force Academy, Pirassununga, SP, Brazil  
Final project: Embraer T-27 Simulator modernization

#### **Short courses**

- 2013      DIRCM (Directional Infrared Counter Measures) system course  
2012      Lizard II system for AMX operational training course  
2012      Aeronautical Instructor Course  
2006      Electronic Warfare: ESM/ELINT and ECM/ECCM Technologies  
2001      Search and Rescue Course  
2001      Air Tactics Course

#### **PROFESSIONAL EXPERIENCE**

- Flight experience:      More than 2,300 h flown in 33 different aircraft, 1,100 h as a fighter pilot  
Pilot in seven flight test campaigns  
Squadron leader  
Ground school and simulator training for eight different aircraft

- Feb 2013 – Present      Brazilian Air Force – Aerospace Technology and Science Department,  
Position: Major, Pilot and Instructor of the Test Pilot School  
Flight Testing Education Division  
Activities: Flight testing course instructor and coordinator
- Apr 2010 – Feb 2013    Brazilian Air Force – Aerospace Technology and Science Department,  
Position: Captain and Test Pilot  
Flight Testing and Safety Divisions  
Activities: Planning and execution of flight testing campaigns
- Jan 2005 – Jan 2009    Brazilian Air Force – Adelphi Squadron, Rio de Janeiro, RJ, Brazil  
Position: Lieutenant and fighter pilot  
Electronic warfare section  
Activities: Electronic warfare equipment configuration
- Jan 2001 – Dec 2004    Brazilian Air Force – Joker and Grifo Squadrons, Brazil  
Position: Lieutenant Aviator  
Fighter pilot trainee

## **PUBLICATIONS**

Forums (presentation and publication in annals):

- 2015 STAMP Workshop at MIT – STPA results on light aircraft crosswind flight test campaign
- 2014 Annual Symposium of the Society of Experimental Test Pilots – STAMP analysis of light aircraft crosswind operations
- 2013 Annual Fighter Squadrons Reunion – Weapon certification and development campaigns
- 2012 European Rotorcraft Forum in Amsterdam
- 2008 Annual electronic warfare symposium – Operation and capabilities of Night Vision Goggles

Journals:

- Castilho, D. S.. Datalink requirements for Brazilian Operational Squadrons. **Spectrum**, Brasília. 2000, v.10, p.31, 2007.

Research:

- Flight Testing development, certification and reception campaigns

## **TEACHING**

- Instructor for three naval Electronic Warfare courses
- Instructor for Flight Testing and Reception courses