

# THIAGO RODRIGO CICOGNA

Brazilian, Married, 38 years old  
Mechanical Engineer

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## 1. PROFESSIONAL EXPERIENCE

- 2014 - Current **Federal Institute of Sao Paulo (IFSP)**  
Lecturer – Introduction to Aircraft Maintenance, Structural Repairs (theory and practice) and Maintenance Management
- 2016 – 2018 **The Avsource Group**  
Consultant – Aircraft records review and aging aircraft inspections
- 2015 - 2016 **Zyon Aviation Services**  
Consultant – Aircraft records review and aging aircraft inspections
- 2012 - 2014 **Embraer S/A**  
Product Development Engineer – Brazil  
Material Review Board (MRB) – Jacksonville (FL)
- 2008 - 2012 **TAM Linhas Aéreas S/A**  
Repair Station Structures Engineer (Airbus, Boeing, ATR42 and Fokker 100) and  
Instructor – Maintenance manuals (SRM, AMM and IPC)
- 2008 - 2012 **Universidade Paulista – UNIP**  
Lecturer – Static, Strength of Materials and Mechanical drawing
- 2007 - 2008 **MMAir – Civil Aviation School**  
AMT instructor (Airframe) – Aerodynamics, Weight and Balance, Aircraft inspection  
and Aircraft drawings
- 2003  
(4 months) **Multibrás (Whirlpool) Eletrodomésticos S.A.**  
Internship - Product Development

## 2. EDUCATION

- 2010 - 2012 **MBA – Business Management**  
Fundação Getúlio Vargas (FGV) – 432 hours
- 2004 - 2008 **Doctorate**  
University of Sao Paulo (USP) - Structural Dynamics  
Rotational accelerometer using bimorph PZT
- 1999 - 2003 **Mechanical Engineering**  
University of Sao Paulo (USP) – emphasis in Aeronautics and Computer Science

## 3. TRAINING AND COURSES

- 2018 **Universal Safety Oversight Audit Programme – USOAP CMA OACI**  
ANAC Brazil
- Aviation Maintenance**  
Embry-Riddle Aeronautical University – Massive Open Online Course

- 2018 **MRO Innovate**  
MRO Americas – Orlando/USA
- Maintenance Error Avoidance (Core Course 2014)**  
FAA Safety Team Aviation Learning Center Online Course
- Failure to Follow Procedures - Inspections**  
FAA Safety Team Aviation Learning Center Online Course
- Coming of Age: Sustainability in the Aviation & Aerospace Industry**  
Embry-Riddle Aeronautical University – Massive Open Online Course
- 2017 **Safety Management Systems (SMS)**  
MRO Americas – Orlando/USA
- Introduction to Aircraft Accident Prevention and Investigation**  
CENIPA (30 hours)
- Part 107 Small Unmanned Aircraft Systems (sUAS)**  
FAA Safety Team Aviation Learning Center Online Course
- 2016 **Ramp and Transit – Airbus A320 Family**  
LATAM MRO (120 hours)
- 2015 **Liquid Penetrant Testing – Level I**  
LATAM MRO (40 hours)
- Electrical Wiring Interconnection Systems - EWIS**  
LATAM MRO (40 hours)
- 2012 **MSC Software: Linear analysis with MD.Nastran / SimXpert**  
EMBRAER S/A (40 hours)
- MSC Software: Non-linear analysis with MD.Nastran / SimXpert**  
EMBRAER S/A (40 hours)
- 2011 **Train the Trainer**  
TAM MRO (40 hours)
- Airbus: Fasteners and Cold Expansion of Fastener Holes**  
Airbus Miami Training Center (40 hours)
- 2010 **Airbus: Structure Repair for Engineers – Metallic Structure**  
Airbus Training & Flight Operations Support and Services (80 hours)
- 2009 **Aircraft General Familiarization – Airbus A320 Family**  
TAM MRO (40 hours)
- Airbus: Composite Repair Course for Engineers**  
Airbus Training & Flight Operations Support and Services (64 hours)
- 2007  
(3 months) **International Exchange**  
Development of a Rotational Sensor Based in Piezoceramic Bimorph Applied to Plate Structures - Conservatoire National des Arts et Métiers (CNAM-Paris/France)

#### 4. ACADEMIC PRODUCTION

SOUZA, M. G.; CICOGNA, T. R.; CHIQUITO, A. J. **Excitation of normal modes of a system using an unbalanced electric motor.** Revista Brasileira de Ensino de Física (Online), v. 29, pp. 5-10, 2007.

CICOGNA, T. R.; VAROTO, Paulo Sergio; TRINDADE, M. A. **Measurement of Rotational FRFs in Isotropic Beams and Plates Using Piezoceramic Bimorphs and Genetic Algorithm Optimization.** In: IMAC - XXVI Conference and Exposition on Structural Dynamics, 2008, Orlando. Proceedings of the XXVI IMAC, 2008. v. 1. p. 1-10.

CICOGNA, T. R.; VAROTO, Paulo Sergio; TRINDADE, M. A. **Angular FRF Assessment Using Piezoceramic Bimorphs Applied to Beams and Isotropic Plates.** In: ISMA2008 International Conference on Noise and Vibration Engineering, 2008, Leuven. Proceedings of the ISMA 2008. Leuven: Katholieke Universiteit Leuven, 2008. v. 1. p. 1-15.

CICOGNA, T. R.; VAROTO, Paulo Sergio; TRINDADE, M. A. **Measurement of Angular Motions Using Piezoceramic Bimorphs.** In: XIX International Congress of Mechanical Engineering, 2007, Brasília. Proceedings of the COBEM 2007. Rio de Janeiro: ABCM, 2007. v. 1. p. 1-9.

MARQUI JUNIOR, C.; CAIXETA JUNIOR, P. R.; CICOGNA, T. R. **Aeroelastic Analysis of Nonlinear Airfoil.** In: XII DINAME International Symposium on Dynamic Problems of Mechanics, 2007, Ilha Bela. Proceeding of the International Symposium on Dynamic Problems of Mechanics, 2007.

#### 5. AWARDS

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|------|---|
| 2013 | <b>Embraer S/A</b><br>A4 Skyhawk wing's upper skin removal procedure: ROI of US\$ 150.000,00  |
| 2010 | <b>TAM Linhas Aéreas S/A</b><br><i>TSManger</i> (development of an engineering computational platform for maintenance records management) |
| 2006 | <b>SAE Aero Design East</b><br>Champion team<br>Marietta-GA, U.S.   |
| 2005 | <b>SAE Aero Design</b><br>Champion team<br>São José dos Campos-SP, Brazil   |
| 2003 | <b>International exchange</b><br>Undergraduate research award (USP)<br>Ohio State University and Rutgers University                       |