



FERNANDO GONÇALVES GARCIA

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fernandogarcia@usp.br
Nationality: Brazilian and Spanish
Birth date: 05/08/1980

EDUCATION

Doctoral degree in Mechanical Engineering – Escola Politécnica da Universidade de São Paulo. Since Mar 2015 – Today.
São Paulo, SP, Brazil

Concentration in Structural Stability Analysis.

Title: The influence of the machining radius on global and local buckling of integral unflanged stiffened panels.

Master's degree in Aeronautical Engineering – Instituto Tecnológico de Aeronáutica - ITA / Embraer. 2008
São José dos Campos, SP, Brazil

Concentration in Solid Mechanics and Structural Analysis. Final Project Leader of a Commercial Airplane, team with 26 students.

Title: Development of a Standard Worksheet for Structural Analysis of Aeronautical Beams Sections.

Mechanical Engineering – Escola Politécnica da Universidade de São Paulo. 2004
São Paulo, SP, Brazil

Generalist Engineering – École Centrale de Lille 2001-2003 Double Diploma.
Lille, France

Mechanical Technician – Escola Técnica Federal de São Paulo -1998
São Paulo, SP, Brazil

Publications in Indexed Journals

Fernando G. Garcia, Roberto Ramos Jr. "A methodology to investigate the influence of the fillet radius on the buckling of integrally stiffened panels". Latin American Journal of Solids and Structures Vol. 16, Pages 1-18, 2019. doi:

<https://doi.org/10.1590/1679-78255549>

EMPLOYMENT HYSTORY

EMBRAER

Since Nov 2006 - Today

Empresa Brasileira de Aeronáutica SA is a Brazilian aircraft manufacturer for commercial, executive, military and agricultural.

Product Development Engineer, Structural Analysis

- **Advanced Design - New aircraft Program - Feb 2019 – Today**
 - Structural Team – Empennage Segment Responsible
 - Aircraft Preliminary Studies
- **Advanced Design - New aircraft Program - Feb 2017 – Jul 2017**
 - Structural Team – Wing Segment Responsible

- Aircraft Preliminary Studies
- **Legacy 450 & 500, Praetor 500 & 600 Program (FAR Part-25) – Dec 2009 – Jan 2017, Aug 2017 – Jan 2019**
 - Structural Team Leader – Wing Segment Focal Point
 - Linear and Non-Linear Static Stress Analysis, Buckling Stability Analysis and Fatigue & Damage Tolerance Analysis of wing structure during product development and serial phase.
- **Phenom 100 & 300 Program (FAR Part-23) – Nov 2006 - Oct 2009**
 - Mechanism's Team – Door Segment (main door, exit door, baggage doors and landing gear doors).

DAIMLERCRYSLER DO BRASIL LTDA

Feb 2004 – Feb 2005

German automobile company formed a conglomerate, including Mercedes-Benz.

Mechanical Engineering Trainee in the test analysis area, in the Department of driveshaft and cardan joint for commercial vehicles at the Center for Technology Development.

INSIA

Jun – Aug 2003

Spanish University Institute of Automotive Research and Investigation. *Universidad Politécnica de Madrid - Spain*

Internship in dynamic reconstruction of traffic accidents with the software PC Crash.

GROUPE STEQUAL

Jan – Feb 2002

French company specialized in stamping and plastic injection die. *Scionzier – France*

Undergraduate internship, seeking a general knowledge of the company activities and production.

CNPQ

Jan - Jun 2001

National Council for Scientific and Technological Development - Referring to the Ministry of Science and Technology.

Undergraduate research on hydroforming held at Escola Politécnica da Universidade de São Paulo.

TRANSBRASIL S/A LINHAS AÉREAS

Feb - Jul 1998

Airline, among the top 3 Brazilian, closed in 2001.

Aircraft maintenance technician Internship in the Composite Area.

LANGUAGES

Portuguese (native)

French (fluent) – Vichy. 2001 (France), lived two years in France.

English (fluent) – Cultura Inglesa 1995-2004 / Private. 2005 LSC (Canada – 4 months).

Spanish (native) – Universidad Complutense de Madrid. 2003 (Spain)

German (basic) – CAVC Idiomas FEA – USP. 2004

Jan 2020