



LUIS EDUARDO DA SILVA GARCIA

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Enschede (Overijssel) – Netherlands

Brazilian, single, 31 (27/Jan/1990)

SUMMARY

System Engineer with experience on complex and highly-integrated systems development process, from conceptual design to entry into service and certification phases.

Passionate about system engineering, technology, aeronautics, sports and learning. Challenging my limits and leaving a sound legacy to the next generation are my drivers.

EXPERIENCE

Xsens (Enschede/NL) – System Engineer (Nov/2020 – Present)

- Consolidation of System Engineering and Product Development Processes;
- 3D Body Motion (3DBM) technical product idealization and specification (requirements capture, definition, high-level system test strategy, etc.)

Rolls Royce Deutschland (Berlin/DE) – Technical Integrator and Validation Engineer (on behalf of Alten) (May/2020 – July/2020)

- Technical Integrator for the development of the IMI and Fire Extinction tests of Pearl 700 engine (UK and DE teams);
- Work package responsible for Inlet and Nacelle Anti-Ice Validation Activities.

AIRBUS (Hamburg/DE) – V&V Coordinator for ADT (on behalf of Alten) (Nov/2019 – May/2020 & Sep/2020 – Oct/2020)

- Coordination of Validation and Verification Activities for Autonomous Distress Tracking (ADT) - Multi-programs (A320, A330 and A350 families);
- Requirements Management and Document Structure Definition – DOORS;
- Multidisciplinary Test Schedule Definition – Supplier, Laboratory, Ground and Flight Tests definition (strong interface with Airbus teams in Toulouse);

EMBRAER S.A. – KC-390 Brake Control System Engineer (Jun/2014 – Oct/2019)

- Working with Brazilian Civilian Certification Authority – Part 25 – (ANAC) and Military Certification Authority (IFI) on the certification of KC-390 Brake Control System;
- Working knowledge of Aerospace Qualification, Safety Analysis and Certification Standards (DO-160F/G, ARP1070C, AIR1739, AS1145A, TSO-C135a, TSO-C62d);
- Preparation of certification technical documentation (Test Proposals and Results, System Technical Description and Accomplishment Summary, Qualification Dossier, Safety Assessment);
- Safety Analysis for Civil and Military Missions (SFHA, FMEA, Common Mode, Risk Assessment, ARP4761);
- System Requirements and Process Assurance focal point activities (PR management, DOORS, ARP4754);
- Project Leader for the KC-390 Brake Control Units development process (DO-178C and DO-254);

- Focal point for KC-390 Brake Control System Onboard Maintenance Software (OMS) specifications and integration with other technologies;
- Supplier Management Activities (Follow-Up, Technical Meetings, Program Meetings, Component and System Design Reviews);
- Scrum Master for Landing Gear and Brake System teams (5 people) activities (execution of scrum process, steering people to achieve KPIs, escalation to high management).

EMBRAER S.A. – Engineering Specialization Program (ESP) (Jan/2013 – Jun/2014)

Specialization program developed by Embraer in partnership with ITA (Aeronautics Institute of Technology) with a Master Degree at Aeronautical Engineering.

- Nominated Project Owner on a multidisciplinary Scrum environment: clean sheet conceptual and preliminary design of a large and ultra-long range executive aircraft;
- Multidisciplinary management of 30 team members in activities of market analysis, conceptual design, preliminary design and business plan preparation to show compliance to market requirements;

EDUCATION

- ITA – Instituto Tecnológico de Aeronáutica – (2019/2021 – ongoing)

Master of Engineering in Aeronautical Engineering

“Study of Different Antiskid Systems Performance Calculation Methodologies and the Definition of Integrated Requirements”

- UNESP – Universidade Estadual Paulista – FEIS (2007-2012)

5 years Full Time Graduation in Mechanical Engineering – Completion of course work: *Performance Evaluation for an AeroDesign Aircraft*

Performance Technical Leader at Team Zebra of AeroDesign Competition (2008-2012)

VOLUNTEER EXPERIENCE

- SAE AERODESIGN BRAZIL COMPETITION – Performance / Electric Design Judge (Jun/2015 – Present);
- SAE BAJA BRAZIL COMPETITION – Brake System Judge (Jun/2016 – Aug/2019);
- TETO – Social Development NGO – Volunteer and Team Leader (Feb/2012 – Aug/2019).

PUBLICATIONS

- EUCASS 2017 – 7th European Conference for Aeronautics and Space Sciences – *Effects of Wing Flexibility on the Drag of Regional Aviation Aircraft*.
- ISMA 2020 – International Conference on Noise and Vibration Engineering – *Bond Graph Concepts Applied to an Aircraft Brake System*

LANGUAGES / SWs

- English - Advanced
- Spanish - Intermediate
- Advanced Microsoft Office, DOORS and Intermediate CATIA, MatLab, Simulink, 20-Sim skills.