

## **André Antonio Andrade Paiva**

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17/08/1994 • Portuguese/Brazilian • Single

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### **Academic Education:**

- PhD Candidate in engineering sciences and technology, University of Liege – Conclusion in 06/2024.
- Master's degree in advanced ship design, EMSHIP+ program – Concluded in 06/2020.
- Bachelor's degree in mechanical engineering, University Center FEI, Brazil – Concluded in 06/2018.

### **Languages:**

- English, Access School, Upper Level – Concluded in: 2010.
- TOEFL IBT, Score: 109 – Test done in: 09/2015.
- German, Bahnhof School, B1 Level – Concluded in: 2017.

### **Professional Experience:**

- **Free Field Technologies** - from 06/2020  
*Development Engineer and PhD Candidate*

Development and research of the topics related to the vibroacoustic numerical analysis, specifically the substructuring of complex vibroacoustic models, as well as the implementation of additional tools to the existing modules provided by Actran. It is also part of the activities fixes in the code and performance improvements.

- **Free Field Technologies** - from 02/2020 until 06/2020  
*Internship – Master Thesis Development*

For this internship, it has been proposed the study and implementation of a tool that allows to efficiently modify the physical properties (mass, stiffness, and damping) of an energy-based model. Such a tool is crucial for the optimization of complex structures, as a ship cross-section, since it provides the effect that the modification of each property has on the global noise, vibration, and harshness behavior of the model. The thesis could be efficiently developed and implemented in Actran's source code

- **Itaú Unibanco** - from 06/2017 until 06/2018  
*IT Intern*

Throughout this internship in the bank, I was responsible for the optimization of the processes of the area, using Lean methodologies and tools such as Kaizens. The area was responsible for the support and improvement of the more than 10.000 Windows servers and I was also involved in projects that guaranteed the security of the environment, IT governance (ITIL) and monitored audits.

- **Altair Engineering** – from 11/2016 until 06/2017  
*Support Intern*

On this internship, I was trained to use the company's main software, and to provide technical support to customers, in particular, the solver of dynamic nonlinear simulations (RADIOSS). Also, I was able to participate in the development of an engineering solution project (Welding representation) for one of the customers.

- **ZF Brazil** – from 03/2015 until 11/2016  
**Process Engineering Intern**

During this regular internship in process engineering, I was part of the team that developed and migrated the software utilized to manage the production documents. One of its main deliverables was the reorganization and standardization of processes information, reduction of the number of managed documents that are supplied to the factory and unification of the product and processes information into a single database. Also, the calculation of cost of the processes suffered great changes and corrections through this project. Among the daily activities were elaborations of standardized work plan, the review of PFMEA and flowcharts and processes modification management. Besides these activities, I was involved with the control of chemical inputs, such as protective oiling, and also, in actions to solve quality problems with the customers.

- **ZF Brazil** – from 01/2015 until 01/2015  
**Process Engineering Summer Internship**

Development of a project for the process engineering team within one month. This project was the elaboration of a visual book to aid the assembling of the clutch disc, further on, displaying a presentation about the project to all the engineering teams of the factory.

### **Technical Skills:**

- Advanced programming skills with Python and C++.
- Advanced Actran software knowledge.
- Advanced MATLAB knowledge.
- Advanced AutoCAD, Siemens NX and Rhinoceros 3D knowledge.
- Advanced ANSYS and HyperWorks package and Ansys knowledge.
- Advanced Microsoft Office software knowledge.
- Basic C#, LabVIEW and SQL knowledge.

### **Additional activities:**

- Team captain in the International Student Design Competition for a Safe and Affordable Ferry 2020 – Awarded 2<sup>nd</sup> place.
- Operations and Logistics Management, FGV – Concluded in: 11/2014.
- Participation in the project Baja SAE.