Xabier Sagarzazu
Industrial Engineer

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ABOUT ME

- Spanish citizen.
- Born in 21/01/1988
- Experience in Aerospace, Railway, FEA Software and Bearing Industry
- Experience working in three different countries (Spain, Japan and Indonesia) surrounded by multicultural environments
- Possess adaptability, passion in continuous learning and improvement, responsibility and reliability, helpful attitude and high energy

EDUCATION

2014

MSc in Industrial Engineering
UPNA, Spain

2011

Bachelor's Degree in Mechanical Engineering

University of the Basque Country, Spain

LANGUAGES

English (Business)
Spanish (Native)
Japanese (Basic)

WORK EXPERIENCE

August 2022 - May 2023

Kaxa Bearings, Pekanbaru, Indonesia

Bearing Supply Business Development

Bearing distribution Business development in the area of Sumatra (Indonesia). From Suppliers Worldwide such as China, India, Japan and Europe, we distribute the bearings to customers in Sumatra.

- Identify potential customers and their needs.
- Building connections with customers and suppliers.
- Visit local companies and provide engineering services for maintenance for bearings and working conditions. Find proper solutions for the best performance of machinery in terms of, lubrication, material and running conditions.
- Match the customer needs with our suppliers abroad in terms of Quantity, Quality, Availability and price.

June 2019 - May 2022

JSOL Corporation, Tokyo, Japan

FEA Software Testing Engineer

Electromagnetics and Structural FEA software testing engineer at JMAG division in Quality department.

- SMP and MPP parallel computing testing performance using Linux.
- Maintenance and New application testing on electric devices such as, PMSM, Induction motor and SR Motor.
- Multi physics testing for Structural analysis, Vibrations, Noise, Thermal and Electromagnetics on electric motors.
- Carry out regression testing every time when changes are made to the code to fix defects.
- JIRA (project management software) follow up and customer claim. Report bugs and errors to the squad. Assist with troubleshooting. Work with cross-functional teams to ensure quality throughout the software development lifecycle.
- Develop test cases and prioritize testing activities. Set up test scenarios based on functional requirements.
- Optimization test performance and follow up on multi-physics environment for Genetic optimization algorithm.
- C++ and Python API development for failure detection.
- Coupled analysis test between JMAG-Designer, Abaqus and Matlab-Simulink.

Software

- Catia V5
- Femap-Nastran
- MS office
- Outlook
- JMAG-Designer
- Python

Python

May 2023

Coding Nomads

Machine Learning & Data Science
-Scikit-learn

 Deep Learning
-Pytorch
-Convolutional Neural Networks and NLP.

API, **SQL, GitHub, Automation test: Pytest, rescrape**

https://github.com/xabier-xabier

VOLUNTEER EXPERIENCE

July 2013 - August 2013

World Wide Organisation Farmers (Canada)

Helping local farmers in the area of Ontario on organic farming tasks.

July 2011 - August 2011

World Wide Friends (Iceland)

Helping local farmers in the area of Western Fjords of Iceland building fences for animals and keeping the botanical garden in good condition.

February 2015 - March 2018
CAF (Construccion y Auxiliar de Ferrocarriles), Beasain, Spain
Mechanical Design Engineer

Calculation, design and development of Railway Gearboxes for Locomotives, High Speed trains, Trams, Regional and Metros.

- Part design and assemble using CATIA V5 software.
- CAE stress and dynamic analysis of parts. Structural analysis and vibrations for Gear Unit components.
- Fatigue FEA simulations on Gears.
- Gearbox prototype testing and follow up at CETEST (Test facility inside CAF factory). Check the proper functioning of the Gear Units and its performance, lubrication, noise, wear and reliability under different working and load conditions.
- Research on pressurized air labyrinths for Gear Units under heavy conditions due to sand wear for desert environment.

September 2013 - September 2014
Aernnova Aerospace, Vitoria, Spain
Mechanical Engineer

Worked on the AIRBUS A-220 center wing box and Tail cone sections development.

- Research on delaminations and crack propagation on Carbon Reinforced Fiber structures for the A-220 Center wing box due to manufacturing defects.
- Delamination analysis in Carbon Reinforced fiber structures using MSC-Nastran.
- CATIA V5 design of components for prototypes.
- Analyze of Heat impact in sandwich structures formed by Titanium, CRF and Aluminum caused by the drilling speed and material properties

Education

Intensive Japanese Language Program (Level 3, equivalent to N4)
 April 2018 - April 2019

Intercultural Institute of Japan (Tokyo, Japan)

MSC in Industrial Engineering
Public University of Navarre, Spain   **Sept 2011 - Aug 2014**
Intensification in Computational Mechanics, FEA, Power electronics.
Softwares used: **Matlab-Simulink, Mathematica**

Bachelors Degree in Mechanical Engineering
University of the Basque Country, Spain   **Sept 2006 - May 2011**

Main subjects: Mechanics, Thermodynamics, Elasticity and Resistance of Materials, Fluid Mechanics.

Softwares used: Programming subject in **Turbo-Pascal**