

Frederico Garcia de Oliveira

Mechanical Engineer



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Salvador/Bahia/Brazil



frederico-goliveira



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ABOUT FREDERICO

Mechanical Engineer, with four years of experience in innovation and product development projects. He has worked with mechatronic solutions involving FEA, IP6gK applications, quality tools, systems engineering and project management. Professional with experience in multidisciplinary teams and different nationalities.

SKILLS

Languages:

English – Advanced C1

Spanish – Intermediary B1

Portuguese - Native

Programing languages:

C++, Python, C;

Frameworks:

ROS, ROS 2.

Softwares:

Inventor, Solidworks, Project, Excel,

Mathcad, ANSYS, FluidSim, Gazebo.

EDUCATION

Bachelor of Mechanical Engineering

Centro Universitário SENAI CIMATEC

2014 - 2019

Extension course in Asset

Management according to Standard

ISO 55.001 N

Centro Universitário SENAI CIMATEC

2017 - 2017

SOLIDWORKS Certificate

CSWA – 2020

REFERENCES

Camila Lima – Manager of the robotics area at SENAI CIMATEC.

camila.lima@fieb.org.br

Luis Carlos Ledezma – Technical leader.

lcledezma@gmail.com

EXPERIENCE

Consultant II

SENAI CIMATEC/ 2017 – Now

Mechanical Engineer working in Research and Development in the robotics area of SENAI CIMATEC. He has worked on five robotic projects for the oil and gas industry, two of which were underwater solutions. Main roles:

- Development of mechatronic and mechanical solutions: IP6gK applications for underwater projects; Selection of materials; FEA; Manufacturing processes; Interfaces with electronic systems; Simulation of robotic platforms; SLAM and gmapping development to mobile platform.
- Systems engineering: Analysis of complex systems; reliability tool applications; Decision management; Risk management.

Mechanical Engineer

Clivale / 2017- 2021

Mechanical engineer working in the development of innovation projects in the healthcare and Homecare industry. The main functions performed are:

- Project management - based on PMBOK, risks, budgeting and team management.
- Development of mechatronic solutions for healthcare applications: foodgrade, pneumatic, RFID and cool chain projects.

Co-founder

Progema Brazil / 2021 – Now

Technology startup aiming to improve the cold chain of breweries around the world and looking to serve the perfect beer. Responsible for mechatronic development and project management.