

RENAN AMARAL

MECHANICAL ENGINEER
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OBJECTIVE

Seeking reallocation to the Australian mechanical engineering market while making a difference towards a more efficient, safe and innovative work environment, contributing with a solid practical work expertise.

ABOUT

Mechanical engineer with over 8 years of experience in mechanical design of industrial equipment, has worked as a Mechanical Design Engineer and Project Designer in a wide range of sectors of industry, such food, paper, recycling, oil & gas and aircraft. His skills were developed from hands-on work, combining Engineering knowledge with workshop experience, always focusing in developing safe, efficient and innovative products.

EXPERIENCE

Metal Service Machinery and Equipment (2022 – 2023) - Mechanical Design Engineer:

In this role I have been responsible by several equipment design projects regarding the pulp and paper industry. Even though the role was focused on the machinery design, often the work extended to other sectors of the company such as manufacturing, customer service and operating staff training.

Key activities:

- 3D modelling parts, devices and equipment;
- Generation of engineering and manufacturing drawings;
- Creation of project documentation (O & M);
- Procurement and production supervision of components.
- Technical assistance to the assembling sector;
- Planning of logistics for the equipment;
- Commissioning of products;
- Provide training for the operations staff.

Amaral Tech & Food (2015 – 2021) – Project Engineer & Business Administrator:

In this role, I have been responsible for the company operation, since sales until manufacturing. In the first years, the company focused in developing customized equipment for food industry related customers. However, after 2018, the company focused in design, manufacture and sell Blast Rotor Grinding Mills (Micronizers).

Key activities:

- Client prospection;
- Tests and assessment of products;
- Sales and negotiation;
- Redesign, customization and adaptations in client's equipment;
- Mechanical design of new equipment, devices and parts;
- Equipment adaptation to international work safety standards;
- Electrical control panel design, procurement, assembling and installation;
- Mechanical parts manufacturing (machining, welding, bending etc.);
- Mechanical parts, devices and assembly quality control;
- Products logistics;
- Commissioning;
- After sale services;
- Scheduled maintenance services.

Ritter Aircraft Projects (2013 – 2014) – Mechanical Engineering Intern:

During this internship, I participated in several projects related to aircraft preparation for medical evacuation. In this role we receive orders from clients and had to develop equipment and accessories to be installed on their helicopters or airplanes in order to they be able to transport patients in emergency situations.

Key activities:

- 3D modelling parts, devices and equipment;
- Generation of engineering and manufacturing drawings;
- Creation of project documentation (O & M);
- Development of documentation regarding the government flying authority.

ENRE Engineering and Representation (2012 – 2013) – Mechanical Engineering Intern:

During this internship, I participated in projects related to the development of market for post-processed rice, soy and grains industries. In this role, I also participated in a project for automation of bread dough cooling and freezing processes.

Key activities:

- 3D Modelling parts, devices and equipment;
- Generating manufacturing drawings;
- Procurement and production supervision of components.
- Creation of graphic material for client marketing presentation;
- Visit clients to pitch the product for the clients.

LAMEF – Physical Metallurgy Laboratory of UFRGS (2010 – 2012) – Mech. Engr. Intern:

During this internship, I participated in projects for testing Oil & Gas components, such as risers, flexible pipes, pipe connections, pipe end-fittings and floating hoses. The objective of the tests was mimicking open sea conditions through static and dynamic tension, torsion and bending tests, cycling the components until a significantly large number of cycles or until their failure.

Key activities:

- Design and Finite Element Analysis of test benches.
- Procurement and production supervision of components.
- Coordination and execution of test benches assembly.
- Instrumentation of samples (strain gauges, load cells, cycle counters, turn counters, etc).
- Monitoring of sample conditions during tests, particularly number of cycles, mechanical loads, deformation, temperature and pressure.
- Visual inspection of testing conditions, looking for oil leaks, vibration, noise and cracks.

EDUCATION**Engineers Australia**

Competency Assessment as a Professional Mechanical Engineer (2023)

Federal University Of Rio Grande Do Sul - Ufrgs

Bachelor's Degree in Mechanical Engineer (2009 – 2014)

LANGUAGES

Portuguese (Native)

English (Full Proficiency)

HARD SKILLS

Mechanical Engineering, Computer-Aided Design (CAD), Finite Element Analysis (FEA), Mechanical Analysis, Engineering Design, Project Commissioning, Project Documentation, Engineering Drawings, Procurement, Quality Control, Calculations, Client Liaison, Contract Requirements, Cost Control, Leadership, Project Management, Technical Specs, 3D Modeling, Creative Work, Fluid Mechanics, Machining, Product Design, Technical Reports, International Standards.

Software:

SolidWorks, Autodesk, Ansys Mechanical, Ansys Fluent, Space Claim, Draft Sight.

SOFT SKILLS

Timekeeping, Commitment, Efficiency, Communication, Attention to Detail, Problem Solving, Interpersonal Skills, Analytical Thinking, Resilience, Negotiation, Reliability.

INTERESTS

Cooking, Fitness, Mechanical Technology, Electrical Wiring, PC Gaming, Chess, Travelling.