



BRUNO HOFFMANN DALL'AQUA

MECHANICAL ENGINEER



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29 years old - Santa Rosa, RS, Brazil

PROFESSIONAL PROFILE

Mechanical Engineer with solid experience in the development and leadership of mechanical projects for the automotive, energy, and industrial machinery sectors, working from product conception through validation. Analytical, organized, and proactive professional with strong proficiency in CAD tools, project management, and continuous improvement methodologies. Committed to quality and meeting customer requirements.

ACADEMIC COURSES

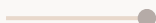
Mechanical Engineering - 2020

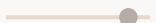
Bachelor's degree at URI - Santo Ângelo/RS

MBA in Project Management - 2026

Uniassevi - Jaraguá do Sul/SC

LANGUAGE

Portuguese (native) 

English (fluent) 

Spanish (basic) 

PROFESSIONAL EXPERIENCE

Mechanical Engineer

2025 - jun/2026

WEG, Jaraguá do Sul/SC.

Electric motor design for automotive powertrain, including:

- Conceptual development of new electric motors;
- Preparation of technical documentation for clients, including manuals and Engineering drawings;
- Review, validation, and release of part and assembly drawings for production;
- Analysis and compliance with customer technical and functional requirements;
- Implementation of improvements and cost-reduction initiatives in existing projects;
- Planning, monitoring, and execution of tests for product validation and certification;
- Research and evaluation of transmission systems, focusing on integration into powertrain designs.

Lead Engineer

2022 - 2025

WEG, Jaraguá do Sul/SC.

Wind Turbine Project - Lead Engineer of the Rotor Hub for AGW172 - 7.X wind turbine, with responsibilities including:

- Coordination of technical activities and project resource management;
- Development and detailing of cast, machined, and welded components;
- Engineering decision-making to ensure compliance with the machine's technical and functional requirements;
- Planning, monitoring, and execution of tests for product validation and certification;
- Provision of on-site technical support after project delivery;
- Communication and negotiation with engineering teams in Germany and the United States;
- Preparation of technical specifications for purchased items, including supplier interface and negotiation to ensure product requirement compliance.

PROFESSIONAL EXPERIENCE

Mechanical Designer

Bruno Industrial, Campos Novos/SC.

2020 – 2021

Wood Chipper Projects, including:

- Development of self-propelled forestry and stationary industrial chippers, as well as steel structures for hoists and cranes;
- Structural calculations, mechanical dimensioning, technical research, and risk analysis in compliance with Brazilian NR-12 safety standards;
- 3D modeling of high-complexity mechanical components and assemblies with Autodesk Inventor;
- Preparation of engineering documentation, including technical drawings and manuals;
- Implementation of technical improvements in existing projects, focusing on cost reduction and performance optimization.

Mechanical Drafter/Designer

2020 – 2020

Metalúrgica Fratelli, Santa Rosa/RS.

- Technical analysis and adaptation of customer parts for in-house manufacturing;
- 3D modeling of components using SolidWorks;
- Preparation and interpretation of technical drawings;
- Production follow-up and technical support to manufacturing.

Engineering Intern

2017 – 2018

URI, Santo Ângelo/RS.

- Responsible for the Numerical Simulation and Fluid Mechanics Laboratory;
- Provided technical and operational support to professors and students during laboratory activities;
- Conducted academic research, resulting in the publication of a scientific paper at a conference in the field of non-Newtonian fluids.

TECHNICAL AND BEHAVIORAL SKILLS

- Software: SolidWorks, Inventor, AutoCAD, ANSYS, Microsoft Office Suite, and SAP ECC;
- Daily interaction with engineering teams in Germany and the United States;
- Project management with a strong focus on organization, prioritization, and meeting deadlines;
- Ability to handle multiple demands while maintaining efficiency and quality;
- Effective communication, leadership, teamwork, and negotiation skills;
- Schedule management with a strong sense of urgency and priority setting;
- Participation and execution of continuous improvement initiatives, including Kaizen and PWQP programs;
- Professional Engineering License in Brazil – CREA RS252488.
- Internal Training at WEG:
 - Emotional Intelligence and Resilience;
 - Educational Leadership;
 - Participative Management;
 - Conflict Management;
 - DFSS – Yellow Belt;
 - Effective Corporate Communication;
 - Time Management;
 - Effective Meetings;
 - VDA 6.3 – Process Audit;