

# Pedro Pereira Basile

## MECHANICAL ENGINEER

Product Design Engineer with 6+ years of experience developing complex architectures for Consumer Electronics and MedTech. Specialized in translating Industrial Design concepts into engineered solutions, with a strong focus on miniaturization, mechanism design and DFM. Proven track record of coordinating multidisciplinary teams to accelerate projects from initial R&D concept to functional prototyping and pre-production validation.



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Milan - Italy

## work experience

### frog (part of Capgemini Invent) - Mechanical Engineer II

mar 2021 - present (4 yrs 11 mos) • Milan, Italy

- Act as Technical Lead within multidisciplinary teams (ID, UX, Research), translating complex user requirements into manufacturable mechanical architectures for MedTech and Consumer Electronics.
- Lead DFM/DFA activities; engineered and validated complex mechanisms and enclosures; managed rapid prototyping (FDM/SLA) and lab testing to accelerate design iteration and build confidence in concepts.
- Provide technical guidance to junior engineers and industrial designers, overseeing task delegation and design reviews.

### Key Projects:

- Roche (Wearable Platform): Co-defined the mechanical architecture for a Class II/III medical wearable system. Solved complex packaging challenges for miniaturized electronics within ergonomic injection-molded enclosures, ensuring IP-rated sealing and assembly feasibility.
- GE Healthcare (Modular Ultrasound Platform): Co-developed a modular hardware platform, focusing on usability and production efficiency. Collaborated with systems and clinical teams, optimizing designs through iterative changes and managing all related documentation to ensure MedTech compliance.
- Advanced Bionics (Sonova): Spearheaded proof-of-concept (POC) exploration and hands-on prototyping for a next-gen cochlear implant. Focused on translating early-stage R&D into appearance models to accelerate design iteration and build confidence in the product vision.

### GIUSTA Bici - Founder & Product Lead

mar 2017 - aug 2019 (2 yrs 6 mos) • Curitiba, Brazil

- Founded a design studio focused on developing high-quality bicycle storage solutions, leading the full product lifecycle from initial concept and hands-on prototyping to small-batch production and market launch.
- Managed all aspects of product development, including design, material selection, and branding.

## education

### Politecnico di Milano - Italy

Master's Degree in Design & Engineering | 2021

### Federal University of Technology (UTFPR) - Brazil

Engineer's Degree in Mechanical Engineering | 2017

### INSA Lyon - France

One-year Exchange Program in Mech. Engineering | 2014

## skills

**CAD:** SolidWorks (Expert), Creo Parametric, PDM/PLM

**Engineering & Design:** Mechanical Design, DFM/DFA, Injection Molding, Tolerance Analysis, Ideation & Concept Development

**Prototyping & Validation:** Rapid Prototyping (FDM/SLA), CNC, Hands-on Model Making, Test Fixture Design

**Languages:** Portuguese (Native), Italian (Native), English (Fluent), French (Proficient), Spanish (Proficient)