

Pedro Pereira Basile

CREATIVE MECHANICAL ENGINEER

Creative Mechanical Engineer with over 6 years of experience, translating concepts into tangible products. My expertise lies in bridging the gap between creative industrial design and detailed engineering execution. I thrive on accelerating concepts from idea to robust prototype, solving complex miniaturization, DFM and manufacturing challenges for consumer electronics and MedTech.



[linkedin/pedrobasile](https://www.linkedin.com/in/pedrobasile)

pp.basile@gmail.com

+39 349 730 1631

Milan - Italy

work experience

frog (part of Capgemini Invent) - Mechanical Engineer II

mar 2021 - present (4 yrs 9 mos) • Milan, Italy

- Key engineer in multidisciplinary teams (ID, UX, Design Research), co-leading creative ideation and concept development to translate user research into tangible proof-of-concepts for MedTech and consumer electronics.
- Engineered and validated complex mechanisms and enclosures; managed rapid prototyping (FDM/SLA) and lab testing to accelerate design iteration and build confidence in concepts.
- Communicated complex engineering solutions effectively to clients and stakeholders.
- Mentored a mechanical engineering intern, guiding technical development and project contributions.

Key Projects:

- Roche (Wearable Platform): Co-developed the mechanical architecture for a glucosemeter system, focusing on two core components: the miniaturized wearable device shell (managing the integration of the given electronics architecture) and the complex applicator mechanism for the on-body deployment of the device.
- 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 - Owner and Creator

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 Univeristy 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, Fusion 360, Creo Parametric, PLM

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

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

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