



Gabriel Serra

Industrial Designer

Curriculum Vitae

Aveiro, Portugal

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Personal keywords

Multi-disciplinarity ; Sustainability ; Design & Engineering ; Business & Innovation ; CAD & render



Native



C1



B2



B1

Design & Engineering — Awards — Business & Innovation



National winner (2023)



Winner Product / Bicycles / ID: 638123 (2024)



Most innovative idea / product (2023)



Best business pitch (2023)



Best business pitch (2023)

Education

PhD in Mechanical Engineering

02/2022 - Present

University of Aveiro, Portugal

MSc in Product Design Engineering

09/2019 - 12/2021

University of Aveiro, Portugal

BSc in Industrial Design

02/2010 - 12/2016

Federal University of Rio de Janeiro, Brazil

Softwares



Courses

Seed Tech Transfer (May 2023 - 3 months)

Business & entrepreneurship skills development

University of Aveiro, Portugal

Start for Future program (Feb 2023 - 8 months)

Promoted by EU/EIT - Business acceleration program/innovation hub

SFF cooperative (online program)

Sustainable Materials Management (Jan 2022 - 1 month)

Strategies for designing for a circular economy

Lund University, Sweden (online program)

Experience

Most relevant experiences related to the fields of Design & Engineering
From 2016 to 2019 I worked in the tourism & service industries

MIT Portugal PhD scholar - "Materials, Design and Biomechanics for a safer Micromobility"

02/2023 - Present

University of Aveiro, Portugal

Graduate researcher at the project "Sustainable Materials and Manufacturing"

06/2021 - 01/2022

University of Aveiro, Portugal

Research intern at the "ReduCat" project for autistic children

03/2014 - 01/2015

University of Dundee, Scotland - United Kingdom

Product Design intern at D&D Pilates

02/2013 - 01/2014

Rio de Janeiro, Brazil

Research intern at the "Smart Pillbox" project

07/2012 - 12/2012

University of Alberta, Canada

Design intern at the Lab of Design, Innovation and Sustainability (LABDIS)

03/2012 - 07/2012

Federal University of Rio de Janeiro, Brazil

Interests/skills

Materials & Manufacturing

Technology

Sustainability

Circular Economy

Design Thinking

Rapid Prototyping

Numerical Simulation

Sketching

3D Modeling & Rendering

Team Work

Multidisciplinarity

Business & Innovation

Publications

(Click the title to go the publication)

03/2024

On the feasibility and the impact resistance of a 3D cross-based fractal produced by powder bed fusion additive manufacturing

03/2024

Shear thickening fluids in cork composites for impact mitigation: the role of fumed silica concentration

09/2022

New hybrid cork-STF (Shear thickening fluid) polymeric composites to enhance head safety in micro-mobility accidents

01/2022

Expanded (black) cork for the development of an eco-friendly surfboard: Environmental impact and mechanical properties

12/2021

Head protection in electric micromobility: A critical review, recommendations, and future trends

06/2016

Designing ReduCat: Audio-Augmented Paper Drawings Tangible Interface in Educational Intervention for High-Functioning Autistic Children