



Carolina Villamil



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SUMMARY

Denny Carolina Villamil is a Colombian teacher at Blekinge Tekniska Högskola (BTH) in the Department of Strategic Sustainable Development (Sweden). She is a creative, enthusiastic, skilled and passionate designer, who has experience in the fields of industrial design and education. She has a Master in Sustainable Product Service System (PSS) Innovation, she is an energetic team member who views challenges as great opportunities and has a big commitment with the environment and the development of sustainable products and services with the focus on stakeholder's active participation.

WORK EXPERIENCE

- 2017 – present **PhD candidate and Teacher**
Blekinge Institute of Technology, Sweden.
Department of Strategic Sustainable Development
- Adjunct Instructor**
2013 – 2017 Politécnico Grancolombiano. Bogotá - Colombia.
Program of Environmental management.
- 2012 – 2017 Universidad Jorge Tadeo Lozano. Bogotá - Colombia.
Design and Architecture Department.
- 2008 – 2010 Universidad Jorge Tadeo Lozano. Bogotá - Colombia.
Architecture Department.
- 2008 Universidad Autónoma de Colombia, Bogotá - Colombia.
Industrial Design Program.
- 2006 Universidad de Boyacá. Tunja - Colombia.
Graphic Design Program
- 2002 UPTC Universidad Pedagógica y Tecnológica de Colombia.
Duitama - Colombia. Industrial Design Program.
- 2005 – 2017 **Product Brand and Freelance Designer**
Transtec Diseño e Ingeniería SA. Bogotá, Colombia
- 2001 – 2017 **Freelance Designer** - Awa design. Bogotá, Colombia.

EDUCATION

- 2020 - 2023 **Third-Cycle Studies**, (PhD dissertation in March. 2023)
Blekinge Institute of Technology, Sweden
- 2017 – 2020 **Lic. Eng. in Strategic Sustainable Development** – [Thesis Link](#)
Blekinge Institute of Technology, Sweden
- 2010 - 2012 **M.Sc. Sustainable Product -Service System Innovation - MSPI**
Blekinge Institute of Technology, Sweden
- 2003 - 2004 **Graduate Certificate in Multimedia Design**
Universidad Nacional de Colombia, Bogotá (Colombia).
- 1995 - 2001 **Bachelor Degree in Industrial Design**
Universidad Nacional de Colombia, Bogotá (Colombia).

AREAS OF EXPERTISE

Product design
Sustainable product development
PSS - Product Service System Innovation
Design pedagogy

AWARDS

May 2012: **Global Swede** Swedish Ministry for Foreign Affairs for excellence in areas of innovation and entrepreneurship.
Swedish Institute (SI). Stockholm, Sweden.

KNOWLEDGE AND SKILLS

Design thinking
Life Cycle Assessment
Community engagement
Context Analysis
Product design and research

PROJECTS

- 2021 – present **Digital Sustainability Implementation Package (DSIP)**
The purpose of DSIP is to enable a strategic sustainability approach early in the product innovation process. The DSIP package compile a knowledge platform, a data management platform and novel digital tools to evaluate, measure, estimate, predict, set requirement, and simulate expected sustainability performance for alternative product concepts early in the development. [Link](#)
- 2019 – 2022 **Sustainable Product Development within Model-driven development and decision support**
This profile+ project is based on a clear vision and objective regarding model driven development and decision support for sustainable product-service system (PSS) innovation and is building on the further deepening of the ongoing profile work with perspectives of raising international recognition through further presence in top publications, partnering with academics internationally, and also affecting educational programmes at BTH. [Link](#)
- 2018 – 2019 **Sustainability implementation in the product innovation process: SIP – a toolkit and methodology**
This project has the aim to create an implementation package with methodology and interconnected methods and tools to systematically integrate and implement sustainability in product development companies. [Link](#)
- 2017 – 2018 **Strategic, Tactical, and Operational Implementation of Sustainability into the Innovation Process (STOSIP)**
STOSIP has the objective to support manufacturing companies to integrate and implement sustainability on strategic, tactical and operational levels. [Link](#)
- 2015 – 2016 **Sustainable design and production - Guide Book** - Politecnico Grancolombiano
- 2011 – 2012 **Product Service System: Co-Designing for Social Impact** (Master thesis) [Link](#)

PUBLICATIONS

- Villamil, C., Schulte, J., & Hallstedt, S. (2021). Sustainability risk and portfolio management—A strategic scenario method for sustainable product development. *Business Strategy and the Environment*. <https://doi.org/10.1002/bse.2934>
- Schulte, J., Villamil, C., & Hallstedt, S. I. (2020). Strategic Sustainability Risk Management in Product Development Companies: Key Aspects and Conceptual Approach. *Sustainability*, 12(24), 10531. <https://doi.org/10.3390/su122410531>
- Villamil, C., Salehi, N. & Hallstedt, S. (2020). How can Information and Communications Technology support the link between Circular Economy and Product Life Cycle Management?. *Proceedings of the Design Society: DESIGN Conference*, 1, 2187-2196. <https://doi.org/10.1017/dsd.2020.299>
- Villamil, C., & Hallstedt, S. (2020). Sustainability integration in product portfolio for sustainable development: Findings from the industry. *Business Strategy and the Environment*, 30(1), 388-403. <https://doi.org/10.1002/bse.2627>
- Villamil, C., & Hallstedt, S. (2018). Sustainability Product Portfolio: A Review - The 6th ICSD International Conference on Sustainable Development 2018, Rome – Italy. *European Journal of Sustainable Development*. 7(4), 146-158. <https://doi.org/10.14207/ejsd.2018.v7n4p146>
- Villamil, C., Nylander, J., Hallstedt, S., Schulte, J., & Watz, M. (2018). Additive manufacturing from a strategic sustainability perspective. *15th International design conference proceedings*, May 2018. Dubrovnik, Croatia. 3, 1381-1392. <https://doi.org/10.21278/idc.2018.0353>
- Villamil, C. (2016). *Perforando territorios. Extracción, sustentabilidad, soberanía y diseño participativo en el Sur. Encuentros cardinales: acentos y matices del diseño*. UJTL, Bogotá. Pag. 57-75, ISBN: 978-958-725-198-2
- Villamil, C. (2016). Sistemas de productos y servicios (PSS) sustentables en el contexto europeo y su relación con el diseño del sur. *Hablemos de diseño industrial*. UJTL. Bogotá. Pag. 69-84, ISBN: 978-958-725-197-5