Carla Flores Trávez

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Education

Carnegie Mellon University - Pittsburgh, USA   05/2026
Master of Science in Computational Design

Pontifical Catholic University of Ecuador - Quito, Ecuador   03/2019
Bachelor of Architecture
    University Loyola of Chicago, United States.   07/2016 - 08/2016
    Università degli Studi di Parma, Italy.   06/2015

Experience

WHY. Research 'Studio' / Daragh Byrne   08/2024 - present
Research Assistant
    Collaborated as part of the waste machines research project. Examining the opportunities for creative machinery, crafting and fabrication with eWaste by forming devices, tools and processes from discarded technology waste.

Independent professional   05/2019 - 06/2024
    Architectural designer interested in the intersection of design and technology.

PUCEM Pontifical Catholic University of Ecuador, Manabí   01/2024 - 05/2024
Architect
    Collaborated in the design and planning process of architectural projects for the Manabí and Portoviejo Campuses.

IMPU Metropolitan Institute of Urban Planning   01/2022 - 03/2022
Junior Architect
    Designed, planned, and collaborated with an interdisciplinary team. For the Urban-architectural characterization, architectural design of the prototype station with considerations of universal accessibility, construction details, furniture details, quantification of materials, technical specifications, and landscape design for the green axis that accompanies the 7.3km of the Labrador-Carapungo Corridor.

C/ELC, Gabriela Naranjo   05/2021 - 12/2021
Researcher
    Developed an academic paper. Based on my undergraduate degree research theme for the ISUF-H V International Congress ISUF-H, Costa Rica 2021.

YES Innovation
Junior Architect   09/2020 - 04/ 2021
- Part of the design consultancy team for a cycling infrastructure network and pedestrian areas. Technical direction and implementation of two built pilot projects in the city of Ambato. Pilot project: "Ambato by bike and on foot," 1.1 KM of segregated bikeway and 1.7 KM2 of tactical urbanism for the pedestrian area.
- Part of the design team in the consultancy for the Green Infrastructure Plan proposal for the city of Esmeraldas.

Skills

Digital: AutoCAD, Sketch up, Revit, Archicad, Rhinoceros, Grasshopper, Blender, Touch Designer, Vray, Enscape, Lumion, Twin motion, QGis, ArcGis, Illustrator, Photoshop, InDesign, Figma, Miro, Adobe Acrobat Pro, Microsoft Office, Python, Rapid, Google Colab, Visual Studio Code.
Fabrication: Robot Studio, 125W & 5000W Laser Cutter, Robotic Arms: ABB IRB-120, ABB IRB-6640.
Languages: English C1 / TOEFL iBT 101, Spanish (native).
Relevant courses: Applied Machine Learning, Fundamentals of Programming and Computer Science, Introduction to Architectural Robotics.
Leadership: Co-president of the Computational Design cohort for the Graduate student assembly at Carnegie Mellon-Architecture; Coordinator, kickstarted the Spanish study group for 15-112 fall 2024.