

Jonathan E. Hernandez

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Graduate in architecture and M.Sc. candidate in Architecture Construction City at Politecnico di Torino, specializing in advanced BIM workflows and computational design. Experience in complex 3D modeling, MEP, parametric script automation (Dynamo), clash detection, and multidisciplinary project coordination, complemented by background experience in exhibition and museography design.

BIM & Computational Design: Autodesk Revit, ISO 19650 Standards, Dynamo Scripting, Navisworks & ACC (Clash Detection), Tekla Structures (Basics), Rhinoceros, ArchiCAD, Autodesk Forma Site (Urban Design).

Drafting, Visualization & Rendering: AutoCAD, Enscape, D5 Render, Twinmotion, Adobe Creative Suite, Figma.

Project Management & Performance: Microsoft Project, Edilclima, Autodesk Forma Building Performance

Languages: Native Spanish, Fluent English (C1 Level), Fluent Italian (C1 Level)

Work Experience

Architectural BIM Trainee

Principia Ingegneria e Partecipazioni SRL | Turin, Italy

Feb 2026 – May 2026

Model Development: Developed high-detail BIM models for the seismic and structural retrofitting of the Palasport di Siena.

Parametric Automation: Engineered custom parametric scripts in Dynamo to model complex steel structures, automating repetitive tasks while maintaining precise geometric control

Architect & Researcher

Leopoldo Rother Architecture Museum | Bogotá, Colombia

Mar 2023 – Sep 2024

Exhibition Design: Supported museum exhibition design, scenography modeling, material selection, lighting, and installation systems in direct support of executive leadership.

Research Infrastructure: Designed and executed a dedicated research laboratory and heritage document consultation space.

Academic Research: Co-authored scientific research on 20th-century architecture in Bogotá in collaboration with the University of Bologna.

Operations & Partnerships: Managed administrative operations, vendor contracts, logistical budgets, and international institutional partnerships (Italian Embassy, IIC Bogotá, University of Turin, University of Bologna).

Architect – Project Coordination Assistant

Universidad Nacional de Colombia – Faculty of Engineering | Bogotá, Colombia

July 2023 – February 2024 | 7 months

Project Coordination: Acted as the primary liaison between the supervising body and specialist teams (architecture, MEP/facilities, interior design); managed technical inquiries, design details, and project milestones.

Inclusive Mobility: Designed accessible sidewalks and pedestrian pathways tailored for visually impaired individuals.

Education

Master of Science in Architecture Construction City

Politecnico di Torino | Turin, Italy

Sep 2024 – Present | GPA: 29/30

Bachelor of Science in Architecture

Universidad Nacional de Colombia | Bogotá, Colombia

Jun 2017 – Oct 2023

Research Exchange & Thesis: Alma Mater Studiorum Università di Bologna
Cesena, Italy | Sep 2022 – Feb 2023

Certification in Project Planning & Management Fundamentals

University of Virginia Darden School of Business |

Online | Apr 2020 – May 2020

Honors

Honorable Mention (Coursework Category):

Architecture Award 2025

Politecnico di Torino (Oct 2025)

Colfuturo & Ministry of Sciences Scholarship:

Merit-based national study grant,

Colombia (2024)

Publications

Hernández, J. E., & Roza Montaña, N. (Ed.). (2026). A National Perspective. In Bogota Manifesto. The collections of the Leopoldo Rother Architecture Museum. (Acto Cumplido Collection). Universidad Nacional de Colombia, Faculty of Arts. [Forthcoming / In Press]