Jonathan E. Hernández

BIM Specialist · Architecture | Revit · Dynamo · ISO 19650 / UNI 11337-4

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Available in Turin and Milan · Italian residence permit (study), convertible to work

Architecture graduate and M.Sc. candidate in Architecture Construction City at Politecnico di Torino (graduation December 2026), specialising in BIM and computational design. Two years of professional experience in Italy and Colombia: BIM survey and modelling of existing buildings in Revit, Dynamo automation, clash detection, design development through executive drawings and on-site execution, and multidisciplinary coordination with structural and MEP teams on public and institutional projects.

BIM & Computational Design: Autodesk Revit (advanced, custom parametric families), Dynamo, Navisworks (clash detection), Autodesk Construction Cloud, Tekla Structures (basic), Rhinoceros + Grasshopper, ArchiCAD, Autodesk Forma.

Standards & Processes: ISO 19650, UNI 11337-4 (LOD), building permitting processes.

CAD, Graphics & Rendering: AutoCAD, Adobe Photoshop, Illustrator, InDesign, Enscape, D5 Render, Twinmotion.

Office & Management: Microsoft Word, Excel, PowerPoint, Microsoft Project; Edilclima, Autodesk Forma Building Performance.

Languages: Spanish (native), English C1, Italian C1.

Work Experience

BIM Trainee Feb 2026 – May 2026
Principia Ingegneria e Partecipazioni S.r.l. | Turin, Italy

- **BIM Survey:** Modelled the entire Palasport di Siena in Revit from the original 1975 drawings for its foundation-strengthening project (ISO 19650, LOD C – UNI 11337-4), with dedicated parametric families for concrete elements, steel profiles and piles.
- **Dynamo Automation:** Wrote scripts that automatically modelled the secondary steel roof bracing from wireframe paths, and that wrote the nearest grid intersection into every element so it could be located and filtered instantly.
- **Coordination & Documentation:** Ran clash detection in Navisworks and prepared technical documentation for the approval of the PFTE (technical and economic feasibility design).

Architect & Researcher Mar 2023 – Sep 2024
Leopoldo Rother Architecture Museum, Universidad Nacional de Colombia | Bogotá, Colombia

- **JointLab:** Design architect of a research and archive-consultation space, led through construction, including lighting and electrical and data networks.
- **Codazzi Exhibition:** Coordinated the executive design of an exhibition with the Italian Embassy and the Italian Cultural Institute (IIC Bogotá); produced layout drawings and wall-text design and managed on-site installation.
- **Contracts & Budgets:** Managed supplier contracts, budgets and institutional partnerships (Italian Embassy, IIC Bogotá, University of Turin, University of Bologna).

Architect – Project Coordination Assistant Jul 2023 – Feb 2024
Universidad Nacional de Colombia, Faculty of Engineering | Bogotá, Colombia

- **Multidisciplinary Coordination:** Primary liaison between the supervising body and the architecture, MEP/facilities and interior design teams on a public university project; managed technical queries, design details and milestones.
- **Inclusive Design:** Designed accessible sidewalks and pedestrian paths for visually impaired users.

Education

Master of Science in Architecture Construction City
Politecnico di Torino | Turin, Italy
Sep 2024 – Dec 2026 (expected) | GPA: 29/30
Relevant coursework: computational design (Autodesk Forma, Grasshopper).

Bachelor of Science in Architecture
Universidad Nacional de Colombia | Bogotá, Colombia
Jun 2017 – Oct 2023
Research exchange and thesis at Alma Mater Studiorum Università di Bologna, Cesena (Sep 2022 – Feb 2023).

Certificate 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., & Rozo 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. Open access.

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