

MATEO CARDONA DÍAZ

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Bēhance Portfolio (Academic): <https://www.behance.net/mateocardonadaz>

PROFESSIONAL SUMMARY

Architect | Design & Build | 3D Visualization | Project Management | ACC | CAD & BIM Specialist

Specialized architect with expertise in BIM coordination, project management, and computational design. Skilled in streamlining workflows, coordinating multidisciplinary teams, and delivering projects from concept to completion. Proficient in advanced BIM methodologies, CAD technologies, and architectural visualization, ensuring accuracy and efficiency across all project phases. Graduated in Architecture from Universidad de los Andes, with a minor in Project Design and an exchange at ETSAM. Recognized for leadership, problem-solving, and attention to detail in residential and institutional projects. Strong background in computational thinking and design, adept at integrating data-driven processes and innovative tools to develop creative, functional, and sustainable solutions.

PROFESSIONAL EXPERIENCE

Architect and BIM Coordinator

De la Carrera Cavanzo | Bogotá, Colombia | July 2024 - Present

- **Led BIM coordination** for the design of two Artificial Intelligence centers for MinTIC (Government of Colombia), integrating architectural design, budgets, and technical processes in Revit. Successfully organized and managed a 20-person team to deliver initial designs and bidding documentation for two buildings in 5 months.
- **Developed technical plans and renders** for a residential project in San Francisco, ensuring compliance with urban planning regulations. Secured client approval for the proposal, with construction scheduled to begin in 2025.
- **Oversaw construction management** for a country house, optimizing budgets, reviewing materials, and ensuring design accuracy. Delivered the final phase, including flooring, ceilings, lighting, and interior design, on schedule and within budget.
- **Contributed to multi-disciplinary projects** by creating and refining BIM models in Revit and technical drawings in AutoCAD. Supported designs for multi-family residential buildings, a stadium, and a country club's common areas, resolving technical challenges and enhancing project delivery.
- **Supervised on-site construction** of a 70,000-capacity *Vive Claro Bogotá* venue (260,000m²/2,798,614ft²), developed with OCESA. Coordinated interdisciplinary teams to ensure accurate execution of architectural designs, managed as-built drawings, and worked closely with DITAPSA and contractors to resolve conflicts and maintain the project schedule.

Undergraduate Teaching and Architecture Assistant

Universidad de los Andes | Bogotá, Colombia | Jan 2022 - July 2024

- **Assisted in teaching computational design** to over 200 students across six editions of the Computational Thinking course, focusing on visual programming, data analysis, and computational modeling using Rhinoceros, Grasshopper, and Python.
- **Guided students** from foundational concepts to advanced computational workflows, enabling them to model and think computationally through modules on visual programming, iterations, and algorithmic design.
- **Developed and evaluated coursework**, including grading assignments, providing feedback, and supporting students in building mock-ups, 3D models, and 3D-printed prototypes to visualize project decisions.
- **Facilitated problem-solving** by teaching students to break down complex design challenges into sequential and iterative operations, identify patterns, and automate processes to generate multiple solution alternatives.
- **Fostered critical thinking and innovation**, helping students integrate computational tools to analyze, refine, and represent designs across various scales and contexts while emphasizing theoretical and practical applications.

EDUCATION

Architecture (GPA 4.6)

Universidad de los Andes | Bogotá, Colombia | Jan 2020 – Jun 2024

- Coursework: Architecture Skills, Housing, Urbanism, Landscaping, Computational Thinking, Construction, Modeling, and Visual Representation

Minor in Project Design (GPA 4.6)

Universidad de los Andes | Bogotá, Colombia | Jan 2022 – Dec 2024

- Coursework: Project Management, Project Life Cycle, Communication, Budgeting.

Exchange Program in Architecture

ETSAM (Escuela Técnica Superior de Arquitectura de Madrid) | Madrid, Spain | Jun 2023 – Jan 2024

Scholarship for the Course: Beyond the Present: Designing the Future of Educational Spaces

Instituto Superior Técnico | Lisbon, Portugal | Nov 2023

ACHIEVEMENTS

- Competition: Lo que el Huracán No Se Llevó I 2022
Project highlighted by the Colombian Association of Architects for housing typology in the reconstruction of Providencia and Santa Catalina after Hurricane Iota.
- Community Challenge: Innovación Pacífico I 2021
Reimagined the Chocó Robotics School with ATARRAYA, integrating a STEM creativity lab.
- Escalando I 2023
Participated in the annual exhibition of the Department of Architecture with two projects: I Believe in a Better City (2022) and La Grieta (2023).
- Competition: Mayukwayukwa Refugee Camp - Archstorming I 2023
Finalist for a sustainable center in Zambia using local materials.
- Competition: Microhome 6th Edition I 2023
Finalist in the Buildnr competition, published in Microhome digital magazine (Issue 02, March 2024).
- Voluntary Coordinator, Open House Madrid I 2023
Supported the 9th edition of OHM in promoting architectural heritage at the Castelar Building, Madrid.
- Course: Housing in Colombia I 2024
Project selected for the **XIII Ibero-American Biennial of Architecture and Urbanism (BIAU)** in the category *Pedagogías*, as part of an academic collaboration between Universidad de los Andes and Lund University.
- Competition: Brise-Vent Havre I 2023
Proposed transforming the Brise-Vent in Le Havre (France) into a cultural and community-focused museum.
- Competition: Hospice – Home for the Terminally Ill. Finalist.
Mention in a hospice design competition focused on comfort for terminally ill patients.
- Competition: Health Sciences Building – Universidad Santo Tomás, Villavicencio Campus
Second Place with De la Carrera Cavanzo in the competition to design the new Health Sciences Building for Universidad Santo Tomás de Villavicencio

CERTIFICATIONS

- **REVIT** Certified: BIM Architectural Design I Autodesk I Sep 2024
- **NAVISWORKS** Certified: BIM Fundamentals Simulation–Coordination I Autodesk I Sep 2024
- **BIM 360** Certified: Document Management I Autodesk I Sep 2024
- **Autodesk Construction Cloud (ACC)** Certified in: Account Administration, Activation, Administrator, Assets, AutoSpecs, Autodesk Build, Autodesk Docs, Autodesk Takeoff, Budget, Bridge in Build, Bridge in Docs, Build, Changes, Change Order, Clashes and Issues, Correspondence, Cost, Cost Management, Design Collaboration, Docs, Estimator, Executive Overview, Files, Forecast, Forms, Home and Project Status, Issues in Build, Issues in Design Collaboration, Meetings in Design Collaboration, Meetings in Model Coordination, Models and Views, Model Coordination, Packages, Photos, Product Data, Project Administration, Project Manager, Project Templates, Project-Level Insight, RFIs, Reports in Build, Reports in Cost Management, Reports in Design Collaboration, Reports in Docs, Reports in Model Coordination, Reviews, Schedule, Sheets, Sheets & Models, Smart Register, Spec View, Specifications, Submittals, Timeline, Transmittals.
- **Microsoft Certified:** Professional Project Management Fundamentals; Career Essentials in Business Analysis; Artificial intelligence for business leaders; Professional foundations of Generative AI; Microsoft Copilot for Productivity and Professional Foundations in Sustainable Technology.
- **Other Certifications:** Smartsheet – Project & Workflow Management, Make Advanced (Integromat) – No-Code Automation & Scenario Building, Web Developer Certification – Front-end & Back-end Fundamentals, McKinsey Forward Program – Business Problem Solving, Leadership & Communication, BCG: Introduction to Strategy Consulting – Strategic Thinking & Consulting Fundamentals.

TECHNICAL SKILLS

- **Architectural Software:** Revit, AutoCAD, Rhinoceros, Grasshopper, SketchUp
- **Visualization & Rendering:** V-Ray, Enscape
- **Design Tools:** Adobe Suite (Photoshop, Illustrator, InDesign), Canva
- **Mapping & Urban Analysis:** ArcGIS, Grasshopper GIS plugins
- **Fabrication & Prototyping:** Laser cutting, CNC machining, 3D printing
- **Collaboration & Management:** Microsoft Office Suite, Google Workspace, Notion, Trello, Miro
- **AI & Computational Design:** DALL-E, Image FX, Gemini, ChatGPT, Ladybug Tools, DIALux
- **Cloud-Based & Construction Tools:** Autodesk Construction Cloud, Dalux
- **Languages:** Spanish (Native), English (C1 Advanced): IGCSE, TOEFL iBT, IELTS.

REFERENCES

References available upon request.