Juan Rojas Piedrahita

Architect · M.Arch

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I am an architect with a Master's degree in Architecture and professional experience in Berlin architecture practices, international research projects, and architectural heritage. My work brings together architectural design, digital modelling, construction documentation, and visual representation, with a particular focus on BIM methodologies, Revit, and 3D modelling.

My professional experience includes working on construction documentation and technical detailing in LPH 4–5, developing BIM models and coordinating digital information using Revit, AutoCAD, ArchiCAD, and point-cloud data. I have also contributed to architectural design and visualisation projects in multidisciplinary environments, developing 3D models and visualisations for projects across Germany.

EXPERIENCE

07/2025–03/2026

Architectural Intern / Junior Architect (LPH 4–5)

BCK Architektur — Berlin, Germany

Transformation, extension and documentation of existing buildings, including recording and sound studio projects; permit and execution planning (Genehmigungs- and Ausführungsplanung), technical documentation and construction details to German standards; surveying and Scan-to-BIM reconstruction of existing buildings from point-cloud data with Revit and AutoCAD.

01/2025–07/2025

Architectural Intern — Mercedes-Benz team

GRAFT Architekten — Berlin, Germany

Planning and development of Mercedes-Benz dealerships, showrooms and sales locations across Germany; design development, 3D models and visualisations for client presentations and brand environments, using Rhino, AutoCAD, ArchiCAD and Enscape.

2024

Junior Researcher · Research Architect — FCT research grant holder

"SizaATLAS: Filling the Gaps for World Heritage", Faculty of Architecture, University of Porto

Creation of 16 Revit-based BIM construction models of significant buildings by Álvaro Siza for the documentation, analysis and digital inventory of his work in the context of World Heritage (supervision: Teresa Cunha Ferreira).

2023

Collaborating architect

Álvaro Siza's works for inscription on the World Heritage List — Faculty of Architecture, University of Porto

Preparation of official maps and 3D BIM models of the listed buildings, necessary for the World Heritage nomination.

2022–2023

Collaborating architect

Project "Keeping It Modern", financed by the Getty Foundation — Faculty of Architecture, University of Porto

Participation in the Management Plan, graphic editing and modelling of the Ocean Swimming Pool project in Revit.

2021–2022

Collaborating architect

Inventory of Álvaro Siza's works in the north of Portugal — "Siza Atlas", University of Porto

Preparation of inventory sheets of Álvaro Siza's buildings as part of the research project "Siza Atlas".

2020–2021

Design Architect

Collective “Arquitecto en Casa Colombia”

Collective initiative of students and architects from the National University of Colombia providing consultancy on the design and reorganisation of domestic space in response to the COVID-19 pandemic.

2019

Design Architect

International competition for a space for memory and reflection — Territory and Landscape Organization

Design of a public space, green areas and road design of the memorial park; 3D modelling and AutoCAD drawings.

2019

Design Architect

Interior design and renovation of the El Salitre apartment, Bogotá — JUCA Arquitectura

Interior design and furnishing of a single-family flat; 3D modelling and preparation of architectural and carpentry drawings.

EDUCATION

2022–2025

Master’s degree in Architecture

University of Porto — Porto, Portugal

2015–2022

Degree in Architecture and Urbanism

National University of Colombia — Bogotá, Colombia

2018

Architecture and Design — academic exchange

Javeriana University — Bogotá, Colombia

SOFTWARE

Revit · AutoCAD · ArchiCAD · Rhino · Enscape · Scan-to-BIM / point clouds · BIM coordination

INTERESTS

3D Modelling · Architectural design · Architectural visualisation · Technical drawing · Digital illustration · Diagrams and concepts

AWARDS & GRANTS

- Grant holder of the research project “SizaATLAS: Filling the Gaps for World Heritage”, financed by the Foundation for Science and Technology (FCT).
- Highest grade in the thesis of the Degree in Architecture and Urbanism — thesis selected as one of the five best of the School of Architecture of the National University of Colombia.
- 21st Annual Exhibition of Architecture Students 2021 — representative of the National University of Colombia, organised by the Colombian Society of Architects.
- Representative of the Heritage specialisation at the October Salon, annual selection of the best projects of the School of Architecture and Urbanism.
- International exchange grant holder at the University of Porto, Portugal.
- Latin American Hackathon “Respiro Creativo” — concept for a mobile app for the exchange of culture and knowledge.