

Juan Manuel Oviedo

FORENSIC & STRUCTURAL ENGINEER

Experienced structural engineer with over 12 years in building design across the USA and LATAM. Skilled in consulting for architects and owners, participating in diverse projects from low-rise to high-rise structures. Expertise includes building restoration, strengthening, and forensic investigations. Proficient in local and international building codes, with experience in mixed-use, residential, hospitality, academic, and commercial projects. Adept in the design of reinforced concrete, post-tensioned concrete, steel, wood, steel framing, and masonry structures. Experienced in construction administration, quality control inspections, structural assessments, litigation support, and 40-year recertification projects.

PROFESSIONAL REGISTRATION

Professional Engineer: Colombia

PE: #159533 TX.

SOFTWARE

- CSI ETABS, CSI SAFE, RAM Concept & Connection
- AutoCAD, Revit, Exacad, Office Suite

SKILLS

- Structural Analysis & Design
- Effective & Technical Communication
- Problem-Solving & Critical Thinking
- Leadership & Team Collaboration
- Public Speaking & Client Relations
- Construction Administration & Quality Control
- Interdisciplinary Coordination
- Ethical Judgment & Accountability

EDUCATION

Structural Engineering Specialist,
Universidad Nacional de
Colombia, Medellín, 2015
Civil Engineering,
Universidad del Quindío, 2013

HOBBIES

- Reading
- Personal Development
- Sales & Business Strategies

PROFESSIONAL AFFILIATIONS

Board Member, Structural
Engineers Association of Antioquia
2017-2022.

CONTACT INFORMATION

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SELECT FORENSIC/INSPECTION EXPERIENCE

Forensic Consulting

Including Concrete repair drawings, periodic inspections, preparation of field reports, review of contractor payment applications, change orders, and RFIs for:

- **Gallery Art Condo, FL (2022):** Bid documents for concrete repairs and waterproofing replacement.
- **Lee Vista Square, Orlando, FL (2022):** Periodic site inspections for quality control.
- **Terraces North at Turnberry, FL (2021):** PT slabs, beams, joists, and column repairs, pool, deck and planter waterproofing at amenities deck.
- **Silver Thatch Atlantic Plaza, FL (2021):** Garage and balcony repairs on two 18-story buildings.

Expert Witness Reports & Litigation Support:

Technical advisory and support for adjusters (Failure Analysis, Structural Failures, Damage Assessment, Root Cause Analysis, Fire Investigation, Building Defect Investigation) for different types of claims and Litigation Support, including Earthquake, Structural Collapse, vehicle impacts, water intrusion, cracks investigation, storms:

- **Maderos de la Floresta PH vs Constructora Mendebal (2025):** Development of expert report for structural claims.
- **Punta Azul PH vs Constructora Monserrate & Constructora Punta Azul (2024):** Evaluation and expert report for dispute resolution.
- **Parque Ecológico Ecoloso. Fontur vs Contratista (2024):** Structural assessment and forensic report for legal proceedings.
- **Ubalá Market Plaza, Colombia (2022):** Retaining wall collapse investigation.
- **Jamundí City Hall, Colombia (2021):** Fire damage structural assessment.

Structural Assessment & Diagnostics:

- **Rama Judicial Buildings, Colombia (2023):** Assessment of over 120 structures across multiple colombian cities.
- **Echo Brickell, Miami, FL (2022):** Structural assessment of a 59-story tower.
- **San Joaquin & Santa Ana, Colombia (2016):** Structural assessment of two 25-story buildings with substandard construction.
- **Asensi, Medellín, Colombia (2015):** Analysis of existing 14-story structure with substandard construction, numerical analysis, and retrofit solutions were developed.

SELECT 40/50 YEAR RECERTIFICATION EXPERIENCE (2021-2022)

- **South Leisure by the Sea Condominium, FL:** Structural recertification of two 3-story buildings.
- **Costa Del Sol, FL:** 3-story structure. Prepared bid documents for concrete repairs and waterproofing replacement.
- **Towers of Oceanview East, FL:** 11-story residential building.
- **Parker Towers, Hallandale Beach, FL:** 26-story structure with a two-story parking garage.
- **Sunset Harbour South, Miami, FL:** 29-story mixed-use building.
- **Terraces North at Turnberry Aventura, FL:** 29-story concrete structure.

SELECT STRUCTURAL EXPERIENCE

General Projects (2022-2025): Managed over **200** low-rise and mid-rise structural designs in Colombia, including complex residential, commercial, and institutional projects.

830 Brickell, Miami, FL (2023): 57-story tower. Designed and produced shop drawings for ACM panel support along the façade.

Brightline Aventura Station, FL (2021): Two 3-story structures and a 60-ft steel bridge. Designed foundations, concrete columns, shear walls, and RC slabs.

Legacy Hotel & Residences, Miami, FL (2021): 56-story hotel with parking podium and wellness center. Designed tower columns, RC and PT slabs, concrete walls, and foundations.

The Plaza Coral Gables, FL (2020): 8-level podium with two towers (15-story office, 21-story hotel). Designed foundations, columns, reinforced concrete (RC), and post-tensioned (PT) slabs. Assisted in construction administration.

Villa Magna, Miami, FL (2019): 82-story hotel and residential project. Designed concrete shear walls and PT slabs.

Florida International University Phase 2, Miami, FL (2020): 20-story tower with a 6-story parking podium. Designed foundations, concrete columns, RC, and PT slabs.

Onda Residences, Bay Harbor Islands, FL (2020): 9-story building with amenities. Designed foundations, concrete columns, RC, and PT slabs.

2413 Third Ave. Bronx, NY. 2022: The project is a 9-story building. Design of PT slabs of the entire building.

Biocity Grand, Envigado, Colombia (2018): 9-structure residential complex with six 18-24 story towers. Designed lateral and gravitational systems and foundation.

Novaterra Nogal, Mosquera, Colombia (2016): Structural design of 172 three-story houses.

Serrato, Cota, Colombia (2015): Structural design of 60 two-story houses, three amenities buildings, and two commercial structures.

ADDITIONAL STUDIES

- **Course: Structural Pathology and Vulnerability –** Structural Engineers Association of Antioquia, January 2025
- **Revit for Structures –** AIE, 2023
- **Analysis and Performance of Industrialized Concrete Wall Buildings,** 2020
- **Training: Post-Earthquake Building Damage Assessment –** Metropolitan Area of Valle de Aburrá, Medellín, October 2018
- **Diploma in Sustainable Construction - Introduction to the EDGE System –** EAFIT University; Medellín, September 2017
- **Diploma in Pedagogy for Non-Licensed Professionals –** Luis Amigó University Foundation; Medellín, July 2016

WORK EXPERIENCE

Forensic Engineering Director & Project Manager – Blueprint Ingeniería | February 2019 – Aug 2025

- Led forensic engineering department and commercial strategies.
- Managed and trained teams in structural design and forensic investigations.
- Designed reinforced concrete, masonry, steel, and wood structures.

Independent Consultant – Marcon Forensics & Engineering | July 2022 – Aug 2025.

- Structural strengthening and repair design for steel, concrete, and wood structures.
- Drafting and modeling services for repair drawings.

Senior Project Engineer – Forensic Engineering and Consulting | July 2021-June 2022

- Conducted 40-year structural recertifications and forensic investigations.
- Structural assessment and building inspections.
- Designed structural repairs and performed construction quality control.
- Technical assistance for claims and adjustment processes.

Project Engineer – Desimone Consulting Engineers | March 2018 – June 2022

- Designed and coordinated structural systems for U.S. projects.
- Assisted in forensic engineering investigations.

Structural Design Engineer – Efe Prima Ce | Jan 2014 – Mar 2018

- Led structural designs in Colombia, including training and project reviews.

Engineering Assistant – J. Rivera Ingenieros S.A.S | Jan 2013 – Jan 2014

- Assisted in structural design and drafting in Armenia, Quindío.