

# MARCELO PERLA M.Sc. P.E.

## EDUCATION

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2002 - Present	<b>Florida International University (FIU)</b> <i>Doctor of Philosophy Candidate in Civil Engineering</i>	Miami, Florida
1997 - 2000	<b>Florida International University (FIU)</b> <i>Master of Science in Civil Engineering</i>	Miami, Florida
1985 - 1989	<b>Pontifical Catholic University of Peru (PUCP)</b> <i>Master of Science Candidate in Structural Engineering</i>	Lima, Peru
1976 - 1982	<b>Pontifical Catholic University of Peru (PUCP)</b> <i>Bachelor of Science in Civil Engineering</i>	Lima, Peru

## ACCREDITATIONS AND LICENSES

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2002 - Present	<b>Special Inspector, State Of Florida, USA</b>
1993 - Present	<b>Professional Engineer, State Of Florida, USA</b>
1985 - Present	<b>Professional Engineer, PERU</b>

## PROFESSIONAL EXPERIENCE

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2006 - Present	<b>The Pepper Engineering Group</b> PROJECT ENGINEER	Miami, Florida
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- Participated on the following Structural Engineering Peer Review Projects:
  - Da Vinci in Sunny Isles Beach, Florida: 25-stories residential tower.
- Participated on the following Forensic Engineering Projects:
  - One Bal Harbor, Bal harbor, Florida: 27<sup>th</sup> floor collapse investigation.
  - Over 270 investigative assignments completed, including:
    - Hurricane damage
    - Structural failures
    - Collapse
    - Roof damage
    - Foundation failures
    - Flooring failure
    - Ground settlement
    - Pool failure
    - Vehicle collision with structures
    - Building Code compliance.

2002 - 2009

**Abacus Consulting Engineers**

**Miami, Florida**

**PRINCIPAL**

- Provide Consulting Services on Structural Analysis and Design for new and existing Structures. Research Analysis and Design review of existing structures, and Forensic Engineering.
- Participated on the following Design Projects:
  - Tidewater in Panama City, Florida: Analysis and Design of superstructure, slabs, pile foundations and steel pedestrian bridge for a 31-stories residential tower.
  - Palm Isles in Punta Gorda, Florida: analysis and design of superstructure, slabs and foundation for a 4-stories residential building.
  - Tradewinds in Panama City, Florida: Analysis and Design of superstructure, slabs and pile foundations for a 23-stories residential tower.
  - Laketown Warf in Panama City, Florida: analysis and design of superstructure, transfer slabs and pile foundations for three 23-stories residential towers.
  - Auditorium of Haiti University in Haiti: analysis and design of foundation and structural slab.
  - Up Town Loft in Altamonte Springs, Florida: retaining walls design.
  - Alta West in Atlanta, Georgia: analysis and design of steel pedestrian bridge.
  - Beach Side Key West in Key West, Florida: pile foundations design for six different 4-story residential buildings.
  - River West Apartments, Miami, Florida: analysis and design of superstructure, transfer slabs and pile foundations for an 18-stories residential tower.
  - The Fountains on Brickell, Miami, Florida: analysis and design of post-tension slabs for a 5-story residential building.
- Participated on the following Structural Engineering Peer Review Projects:
  - Archstone at Hibiscus in West Palm Beach, Florida: 8-stories residential tower.
  - Madruga Condominium, Coral Gables, Florida: 4-stories residential building.
- Participated on the following Forensic Engineering Projects:
  - Cayman Islands National Archive Building.
  - Almeira Park Condominium Building, Coral Gables, Florida: Construction Defects Investigation.
  - Grand Flamingo, Miami Beach, Florida: Settlement Investigation.

- 2002 - 2003                      **The Raul Puig Group**    **Miami, Florida**  
PROJECT MANAGER
- Research Analysis and Design of existing structures, Design and Project Management of New High Rise Buildings.
  - Participated on the company teams on the following projects: Grand Flamingo Settlement Investigation, Brickell Emerald, and Setai Hotel.
- 2000 - 2002                      **DMc Structural Engineers**    **Miami, Florida**  
PROJECT MANAGER
- Design, Design Review, Construction Management and Threshold inspections.
  - Participated on the company teams on the following projects: Ritz Carlton – Coconut Grove, Courts Brickell Key, and Tower of Dadeland.
- 1998 - 2000                      **Desimone Consulting Engineers**    **Miami, Florida**  
SENIOR PROJECT ENGINEER
- Analysis and Design of Concrete slabs (normal reinforced and post-tensioned,) Shallow and deep foundations, Retaining walls, beams, columns, shear walls.
  - Analysis and Design in steel, wood and masonry.
  - Threshold inspections.
  - Participated on the company teams on the following projects: Diplomat Hotel and Resorts, Mandarin Oriental, Tequesta III, Lucayan Resort, West Palm Beach Marriott Hotel, Ocean Golf Club, Ocean Grill Restaurant, University of Miami School of Communication, Miami Beach Public Library.
- 1993 - 1998                      **BIS, Building Inspection Services**    **Miami, Florida**  
PROJECT ENGINEER
- Structural Re-certifications, Condominium Conversions, Condominium Assumptions, Building Code Compliance, Expert Witness inspections.
  - Inspect Commercial, Industrial, Residential and High-rise buildings for real-estate transactions, Investment, Refinance and Insurance purposes.
  - Over 800 investigative assignments completed.
- 1983 - 1989                      **Seismic Structures Laboratory of the Engineering Department,**  
**Pontifical Catholic University of Peru (PUCP)**    **Lima, Peru**  
PLANT ENGINEER
- Responsible for develops, design and construct structural test setups.
  - Produce methods and procedures for structural experiments.
  - Create and develop software for seismic loading research projects.
  - Field instructor of techniques to prevent seismic collapse by the use of PUCP's improved construction techniques on traditional local building methods and materials.
  - Field investigation, evaluation and testing on damaged structures.

- 1988                               **Faculty of Architecture, National University of Engineering**  
  **Lima, Peru**  
ASSISTANT PROFESSOR  
○ Part-time Professor and Coordinator of the course of Surveying.
- 1987 - 1989                       **Faculty of Engineering, Pontifical Catholic University of Peru**  
  **Lima, Peru**  
ASSISTANT PROFESSOR  
○ Part-time Professor and Coordinator of the courses of Surveying I & II
- 1982 - 1989                       **Seismic Structures Research Engineering Department, Pontifical**  
  **Catholic University of Peru (PUCP)**                               **Lima, Peru**  
ASSISTANT RESEARCH ENGINEER  
○ Tapial Construction: Improvement of Shear Strength of Walls. (1989)  
○ Tapial Construction: Improvement, Design and Testing of Walls. (1988)  
○ Seismic Response of Quincha Structures. (1986)

## AFFILIATIONS

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- 2003 - Present                   **Florida Task Force 1 - Urban Search and Rescue – Structures Specialist**  
○ Responsible for performing various structural assessments for the Task Force during major incident operations. Such as assessing structural damages and structural hazards, recommend structural hazard mitigation, monitor structures for condition changes during rescue and recovery operations.  
○ Deployments:  
    • September 2005: Hurricane Katrina – New Orleans, Louisiana.  
    • May 2006:            One Bal Harbor - 27th floor collapse, Bal Harbor, Florida.  
    • September 2008: Hurricane Ike – Lafayette, Louisiana.

## PROFESSIONAL MEMBERSHIPS

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- 1995 - Present                  Member of the American Society of Civil Engineers (ASCE)  
2000 - Present                  Member of the American Welding Society (AWS)  
2002 - Present                  Member of the International Code Council (ICC)  
2002 - Present                  Member of the American Concrete Institute (ACI)  
2006 - Present                  Member of the Florida Structural Engineers Association. (FSE)

## PUBLICATIONS

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8 research-work related publications in Spanish - list available upon request

## SKILLS

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- Proficient with ETABS, RISA3D, SAFE, ADAPT-PT, ADAPT-Floor, PCA, AutoCAD and Microsoft Office: Excel, Word and Power Point.
- Trained in Computer Languages as Pascal, Visual Basic and Fortran.
- Developed several spreadsheets and programs for analysis, design, pre-processing and post-processing data related with structural analysis and design.

## INTERESTS AND ACTIVITIES

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- Develop computer programs.
- Lay Missionary of Charity Aspirant.

## LANGUAGES

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Speak and write fluently in English and Spanish.