

# ANDRES VANEGAS

## CIVIL ENGINEER

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Go to my web:

<https://shyfock.github.io/Portafolio/>

## PROFESSIONAL SUMMARY

- Cooperative Structural Engineer with extensive experience in designing and analyzing structures.
- Expertise in various building and construction materials, including concrete and steel.
- Civil Engineer Project with extensive background in seismic design and seismic retrofitting.
- Structural Design Engineer experienced in seismic retrofitting composite materials.
- Expertise in residential buildings and single family houses design challenging structural criteria with complex architectural requirements.
- Self-taught in programming languages and software management, with experience in managing spreadsheet software and specialized software for structural analysis and design.
- Successfully solved difficult problems that required adaptation and modification of standard techniques, procedures and criteria.

## EDUCATION

- ✓ **1995 - 2000**  
**Civil Engineering**  
Universidad Nacional De Colombia  
Bachelor of Science  
Medellín (Colombia), December 2000
- ✓ **2015 - 2016**  
**Structural Design**  
Universidad Nacional De Colombia  
Specialist in Structural Design  
Medellín (Colombia), April 2016
- ✓ **2021**  
**Web Application Development**  
Universidad Tecnológica de Pereira, UTP  
Web Application Development Diploma  
Pereira (RIS), Colombia, April - December 2021

## SKILLS

- ✓ **Cost-Effective Design**  
The design benefits the project's economy within high structural security requirements.
- ✓ **Proposal Writing**  
Skill for planning and proposing taking in account customer preferences
- ✓ **Active Listening**  
Understand what people say through listening what they speak without losing details.

## EXPERIENCE

### • 2012-2016

#### Structural Engineer, DEACIVIL

- Design of concrete structures such as channels and structures for lateral support and scour excavation.
  - Design of highway infrastructure as bridges, cantilever retention walls, retention pile walls and cable-stayed walls.
  - Seismic rehabilitation of masonry with fiberglass and carbon fiber composite materials.
  - Seismic rehabilitation of reinforced concrete with composite materials, external bonded steel elements and steel caging strengthening techniques.
  - Design management of residential projects such as buildings and single-family homes, both urban and rural.
  - Oversaw proposal and bidding phases of construction.
- Medellín, Colombia | February 2012 - January 2016

### • 2016-2020

#### Structural Design Engineer, INTPROIND

- Prepared, checked and coordinated documentation to support structural projects design and construction.
  - Design of highway infrastructure as bridges, cantilever retention walls, retention pile walls and cable-stayed walls.
  - Seismic rehabilitation of masonry with fiberglass and carbon fiber composite materials.
  - Seismic rehabilitation of reinforced concrete with composite materials, external bonded steel elements and steel caging strengthening techniques.
  - Design management of residential projects such as buildings and single-family homes, both urban and rural.
  - Created CAD models and drawings for concrete and steel designs.
  - Oversaw proposal and bidding phases of construction.
- Medellín, Colombia | February 2016 - February 2020

### ✓ Seismic Analysis

Dynamic and static analysis of structures, always protecting architectural details and providing high performance structural elements.

### ✓ Structural Configuration

Good joint with the architectural design process to take in account probable structural irregularities and stiffness issues, aiming to preview likely solutions.

### ✓ Proficiency In CAD Software

High capacity in drawing 3D views, elevations and plants in CAD software. Also in the drawing of structural details and plans.