ALEJANDRO GUTIERREZ P

CIVIL ENGINEER

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WORK EXPERIENCE

BIM Engineer with Structural Focus

ESCALA AYN CONSTRUCTORA S.A.S

📅 2024 - Actualidad   📍 Remote

- Coordinated structural building design through BIM models, integrating technical and design disciplines to ensure proper detection and resolution of design interferences.
- Developed structural models in Revit for steel and concrete structures, improving accuracy in structural analysis and detailing.
- Performed preliminary stress and deformation analyses using complementary software, validating results with SAP2000 and ETABS.
- Participated in structural pathology assessments of existing buildings, proposing strengthening and repair solutions based on engineering criteria.

Junior Civil Engineer

ESCALA AYN CONSTRUCTORA S.A.S

📅 2023- 2024   📍 San Gil, Santander CO

- Supported the implementation of structural engineering solutions in the development of low- and medium-complexity building projects.
- Modeled and analyzed reinforced concrete and steel structural elements, including design proposals and verification of structural specifications.
- Identified and assessed structural overloads, proposing design optimizations without compromising structural safety.
- Used Revit, AutoCAD, and advanced Excel spreadsheets to develop structural drawings and accurate material quantity takeoffs.

Structural Engineering Intern

CIMOC UNIANDES

📅 2021-2022   📍 Bogotá, CO

- Designed and programmed a MATLAB-based graphical interface for structural analysis and modeling of typical reinforced concrete structures..
- Collaborated with the structural laboratory in planning academic testing and quantification of materials for practical applications.
- Developed Python scripts to automate seismic response spectrum generation under NSR-10 standards, improving efficiency in structural analysis workflows.

EDUCATION

Specialization in Structural Engineering
Graduate Degree

Universidad Santo Tomas Bucaramanga

📅 2024 - 2025
📍 Bucaramanga STD

Civil Engineering

Universidad de los Andes

📅 2019- 2022
📍 Bogotá D.C, CO

SKILLS

- Autodesk Revit
- Autodesk Autocad
- Autodesk Naviswork
- SAP 2000
- ETABS
- Tekla
- Microsoft Excel
- Python
- Power BI
- MathCad
- Ingles C1 (TOELF IBT)

CERTIFICATIONS

- Revit Autodesk Modeler (Udemy)
- BIM Coordinator (Konstruedu)
- Naviswork Autodesk (Udemy)
- Programacion BIM (Konstruedu)
- ETABS (Usantoto)
- Python (Uniandes)
- Power BI (Uniandes)
- Microsoft Office (Uniandes)
- SAP 2000 (Uniandes)
- ETABS (Uniandes)
- Ingles C1 (TOELF)