

Edgardo Mejia, EIT / e-mail: edgardo146@gmail.com / Cell: (980) 263-7727

Ed has over 14 years of experience in consulting for construction, engineering and design of projects for many industries. Some of the experience include quality control of materials, structural steel analysis, mechanical design and hydraulic analysis. He has worked with computer software for structural analysis including Autodesk Inventor, GTStrudl and StaadPro. He provided design support in Building Information Technology software like: Revit, Navisworks and AutoCAD Civil 3D.



Experience:

Architecture and Engineering Manager, MAE Design, Tucson, AZ (11/2020-Present)

Develop design plans for residential construction projects. Coordinates, and manages the project design and delivery process for clients in the southwest and southeast. Collaborated with other lead professionals to ensure design and documentation are in accordance with project expectations, residential and international code, construction and documentation. Responsible for overseeing and performing structural engineering and related activities associated with substation construction, including Autodesk Inventor and AutoCAD.

Civil Engineer, KAEKO Inc., Tucson, AZ (12/2021-11/2022)

Design of site development packages for commercial, industrial, and residential projects. Technical support in Civil 3D and AutoCAD for general civil engineering, geotechnical and surveying teams. Coordinated with engineers, owners and architects to deliver packages for new land development and building infrastructure. Design of roads and bridges in Infracore to comply with Arizona Department of Transportation Level of Services for new traffic counts. Frequent field visits to jobsites.

Plans Examiner, PIMA County Development Services, Tucson, AZ (03/2021-10/2021)

Assisted consulting engineers, architects, owners and contractors in the interpretation of provisions of the County building and related codes, laws, ordinances and statutes. Fast learning of requirements for projects through own research. Performs analysis of permit applications, plans and specifications for such factors as lighting, ventilation and living space. Prepared and maintained manual and computer-based files of materials reviewed and related materials.

Mechanical Designer, Freeman White/Haskell Inc. Charlotte, NC (01/2020 – 11/2020)

Provide engineering team with project set-up and training for construction drawings in AutoCAD, Revit and Navisworks. Guidance for engineers and architects in standard procedures for BIM projects according to Execution Plans and Guidelines. Including creating families, custom parameters and creating new projects in BIM360 Design. Collaborated with multi-disciplinary and multi-division team members to abide to project needs. Created digital designs according to applicable state codes for MEP systems.

Education:

BS, Civil Engineering
Technology, University
of North Carolina
Charlotte, Charlotte,
NC, 2010

Leadership Academy,
Charlotte, NC 2009

Certifications/Training

EIT/FE, Revit, AutoCAD
Architecture, Civil 3D,
Microsoft Office,
Inventor, First
Aid/CPR/AED, BIM
Coordinator, SkyCiv,
OSHA 10, Bluebeam,
MEP systems, Soils I,
Concrete I

Work Status

U.S. Citizen

Languages:

Spanish, Portuguese

Location:

Onsite or Remote

Structural / MEP Designer, Zapata Engineering Inc., Charlotte, NC (05/2019-01/2020)

Under the direction of a licensed Architect or Professional Engineer planned, designed, constructed and maintained design for drawings in AutoCAD and Revit. Applied industry techniques, procedures and criteria in making adaptations and modifications to assigned MEP projects. Self-check work for completeness, accuracy, meeting standards, fits and stack-ups. Worked from drawings, sketches or scanned images, customer drawings or government drawings or specifications. Established CAD and BIM corporate standards. Established and managed efficient file structure.

Designer Engineer, Cardozo Engineering Inc., Miami, FL (12/2017-11-2019)

Support office with the newest BIM technology and Autodesk software. Creatively supported the process mechanical discipline in a multidiscipline team. Enthusiastically supported collaboration with an online project team. During his tenure with Cardozo completed hydraulic analysis for pressure pipe design and pump design. Accomplished an analysis of an existing plant-water pipe network to improve and accommodate improvements. Provided design for a variable frequency drive on booster pump and a grit collection mechanical system.

Structural Engineer, Dos Santos International, Marietta, GA (03/2016-11/2016)

Ed established a well-rounded approach to structural steel design for a material handling facility. He provided layout of mechanical for high angle conveyors. He effectively followed design criteria for design, layout and construction for conveyor equipment. He supported design efforts as part of flexible office/site engineering team to meet changing project scope requirements and client needs. Ed consistently took responsibilities for project assignments from start to ending by effectively communicating with clients, managers and supervisors

Structural/Civil Engineer for Nuclear Power Plant, ENERCON, Kennesaw, GA (11/2013-03/2016)

Ed developed a thorough understanding of specific design requirements for several nuclear power plants in the U.S. and Taiwan. He multi-tasked different engineering responsibilities for projects up to \$500K. He was engaged in a company-wide multidisciplinary engineering and drafting team according to procedures, specifications, internal reviews and project directives. He developed a methodical understanding of structural analysis and calculation reports. He partnered with engineers, managers and supervisors to ensure calculation reports met specific client requirements through numerous internal reviews.