

Edgardo (Ed) Mejia, EIT

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Ed has over 14 years of experience in collaboration with construction, engineering and architecture in many industries. Some of his experience has improved his ability to deliver comprehensive project management, from cost estimation to field support. He has worked with suite of industry-leading software for proficient translation of visionary concepts into tangible structures. Each project is an opportunity to reinforce his commitment to excellence and innovation.

Education:

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

Certifications/Training:

- EIT/FE
- Revit MEP & Templates
- Revit Architecture
- AutoCAD Architecture
- AutoCAD Civil 3D
- Project Management
- LEED GA
- OSHA 10 Hour
- Leadership Academy
- Technical Writing
- BIM 360 Design
- Navisworks
- HVAC & Refrigeration
- Gravity/Pressure Piping
- IRC, IBC, NEC & ASCE 7
- ASHRAE, SMACNA, IPC
- AISC Steel Construction
- Inventor & FEA
- SkyCiv Structural
- Bluebeam
- ProCore
- RFI's
- ICC Soils I
- ACI Concrete I

Portfolio:

- www.maedesignae.com/portfolio

Languages:

- Spanish

Experience:

Intern Engineer

The Earthworks Group, LLC, Contract (02/2025-08/2025)

- Experience in the design and coordination of building systems, including mechanical systems, ventilation, cooling, exhaust and specialty systems for commercial buildings.
- Design of electrical power, lighting, and distribution for both commercial and restaurant facilities.
- Developing technical drawings, specifications, and documentation in compliance with applicable codes like ASHRAE, NEC, and IRC.
- Collaboration with cross-functional teams including architects, contractors, and builders to deliver integrated MEP solutions for 20+ projects at a time.
- Proficient in industry-standard design tools and committed to high-quality, code-compliant engineering outcomes

Architecture and Engineering Manager

MAE Design, Freelance Contract (11/2020-01/2025)

- Operated business development of design services for engineering construction projects from conception to delivery.
- Coordinated and managed design process for multi-discipline construction trades for projects ranging from \$25k-\$2MIL.
- Directed documentation for construction in accordance with project expectations, international/residential code, city, or county specific jurisdiction.
- Overseeing and supervising structural construction, and related activities associated with electrical substation construction.
- Develop and implemented project design to ensure constructability, including details, repairs, new construction, interiors, building codes and other legal requirements in all architectural work.

Structural Designer

KAECO Inc., Tucson, AZ (12/2021-11/2022)

- Responsible for conforming to development packages for site planning and design, including layouts and permitting coordination for awarded projects.
- Technical support (SME) AutoCAD for disciplines involved (Architectural, Mechanical, Electrical and Structural), including outside consultants and contractors.
- Management and technical training for a staff of 5 with real-time advice, technical training, cost estimates, review and revisions to design packages.
- Established CAD Standards, BIM Design, quality oversight, code review, project management, and efficient file structure.
- Design of roads intersections in accordance to AZDOT specifications for new traffic counts.

Building Plans Examiner

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

- Consultant for engineers, architects, owners, contractors, and staff in the interpretation of building codes, applicable codes, laws, ordinances, and statutes.
- Determined code compliance of proposed residential structures relative to building use and occupancy, fire protection, and safety from permit applications, plans, and specifications.
- Assisted the public by explaining the construction permitting and plans review processes.

- Implemented analysis of permit applications, plans and specifications for multi-disciplinary work, including mechanical, electrical, plumbing, and structural designs.

Mechanical Designer

Haskell Inc., Charlotte, NC (01/2020 – 11/2020)

- Provide engineering team with project set-up and training for construction design in AutoCAD, Revit and Navisworks.
- Guidance for engineers and architects in standard procedures for projects according to guidelines including creating families, custom parameters and creating new projects in BIM360 Design.
- Directed and maintained architectural and engineering models for designs in 2D/3D.
- Performed moderate mechanical design for HVAC systems and energy modeling.
- Developed procedures for multi-disciplinary team members to abide to project needs by creating digital procedures according to applicable MEP systems.

Structural and Mechanical Designer

Zapata Inc., Charlotte, NC (05/2019 – 01/2020)

- Under the supervision of a licensed Architect or Professional Engineer, it contributed to the planning, design, construction, and ongoing refinement of construction drawing sets.
- Utilized industry-standard techniques, procedures, and criteria to adapt and modify designs across a range of assigned projects, ensuring alignment with project goals and regulatory requirements.
- Demonstrated a strong commitment to quality by conducting thorough self-reviews of work to confirm accuracy, completeness, and compliance with design standards, including checks for proper fits and stack-ups.
- Maintained consistency and quality in documentation through the establishment and enforcement of CAD and BIM standards across the organization.
- Actively contributed to the development and maintenance of drawing standards and documentation protocols, ensuring clear communication among all stakeholders.

Mechanical Design Engineer

Cardozo Engineering Inc., Coral Gables, NC (12/2017 – 11/2019)

- Leveraged cutting-edge Building Information Modeling (BIM) technologies to develop detailed, high-level 3D models for water treatment plant design within the construction industry.
- Oversaw the layout and design process using a suite of industry-standard software, including Revit 2018, AutoCAD, Civil 3D, and Navisworks, ensuring precision and coordination across all project stages.
- Participated in the development and maintenance of hydraulic models for various water distribution and sewer systems.
- Conducted thorough analysis of model outputs to deliver data-driven insights and actionable recommendations that informed engineering decisions. Collaborated closely with multidisciplinary project teams to evaluate existing infrastructure and propose efficient, cost-effective system design solutions.
- Prepared detailed technical documentation, including reports and visual presentations, to clearly communicate findings, methodologies, and proposed strategies to clients and stakeholders.
- Demonstrated strong analytical, communication, and design skills, ensuring the delivery of high-quality results aligned with project goals and client expectations.

Civil/Structural Engineer

ENERCON Services Inc., Kenessaw, GA (11/2013 – 05/2016)

- Gained in-depth knowledge of design criteria, technical documentation, review processes, and regulatory requirements associated with numerous nuclear power plant projects across the United States, including facilities in Georgia, South Carolina, Florida, Alabama, and Kansas.
- Actively contributed to a wide range of structural engineering tasks, offering support on projects that varied significantly in complexity, scale, and scope. These efforts encompassed both new designs and modifications to existing plant structures, requiring close attention to safety standards and industry codes.
- Collaborated extensively with a multidisciplinary team that included engineers and drafting professionals from across the organization. This cross-functional coordination ensured cohesive project execution and timely delivery of engineering solutions. Responsibilities included interpreting technical drawings, reviewing specifications, and contributing to the preparation and verification of design documents.
- Maintained a high standard of compliance with industry regulations and quality control protocols throughout all project phases.