

# Edgardo Mejia

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## Professional Summary

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Edgardo (Ed) Mejia is a seasoned engineer with over 14 years of experience in industrial and commercial design, specializing in data center infrastructure. He excels in project management, strategic design input, and cross-team collaboration, utilizing advanced software to ensure high-quality standards in global infrastructure projects.

## Experience

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### **The Earthworks Group, LLC**, Intern Engineer

Myrtle Beach, SC  
Feb 2025 – Present

- Experience in the design and coordination of building systems, including mechanical, electrical, and plumbing, for both commercial and residential structures.
- Developing technical drawings, specifications, and documentation in compliance with applicable codes and standards.
- Collaboration with cross-functional teams including architects, contractors, and project managers to deliver integrated MEP solutions.
- Proficient in industry-standard design tools and committed to high-quality, code-compliant engineering outcomes.

### **MAE Design**, Architecture and Engineering Manager

Remote  
Nov 2020 – Jan 2025

- Operated business development of design services for commercial and residential 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 supervise 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.

### **KAEKO Inc.**, Structural Designer

Tucson, AZ  
Dec 2021 – Nov 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.

### **PIMA County Development Services**, Building Plans Examiner

Tucson, AZ  
Mar 2021 – Oct 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.

**Haskell Inc., Mechanical Designer**

Charlotte, NC  
Jan 2020 – Nov 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.

**Zapata Inc., Structural and Mechanical Designer**

Charlotte, NC  
May 2019 – Jan 2020

- Under the supervision of a licensed Architect or Professional Engineer, 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.

**Cardozo Engineering Inc., Mechanical Design Engineer**

Coral Gables, NC  
Dec 2017 – Nov 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.
- Contributed significantly to the development and maintenance of hydraulic models for diverse 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.

**ENERCON Services Inc., Civil/Structural Engineer**

Kenessaw, GA  
Nov 2013 – May 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.
- Demonstrated adaptability and technical acumen while working in a fast-paced, regulated environment, ensuring that structural engineering support aligned with project goals and client expectations.

## Education

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**BS**     **University of North Carolina Charlotte**, Civil Engineering Technology

Charlotte, NC  
Aug 2006 – May 2010

## Skills

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**Project Management:** Expert in site selection and due diligence

**Design Software:** Proficient in AutoCAD, Revit, Bluebeam, Navisworks

**Building Codes:** Familiar with international codes and standards

**Utility Coordination:** Experience with HV/MV substation design

**Cross-Team Collaboration:** Coordinate with diverse engineering teams

## Languages

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**Spanish:** Native speaker

## Interests

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- Guitar, Auto Mechanic, Cooking, Traveling, Dancing, Movies, Faith and Christianity

## References

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**Cardozo Engineering**, Lionel Raya, PE  
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**Switchgear Solutions LLC**, Luis Picornell, PE  
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