

Bianca Melendez

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SUMMARY

Electrical Engineer with over 3 years' experience in MEP design, emphasizing electrical systems for commercial and educational facilities. Demonstrates exceptional skills in managing multiple projects while fostering strong client relationships. Proficient in REVIT and AutoCAD, ensuring compliance with building and energy codes. Articulates ideas clearly, both verbally and in writing, contributing to effective communication within fast-paced environments. A confident self-starter dedicated to providing innovative solutions that meet specific project needs. Eager to push the boundaries of engineering design and positively impact clients through strategic collaborations.

EXPERIENCE

Electrical Engineer June 2024 - Present
Innovative MEP Solutions Chicago, IL

Serves as a key member of a dynamic team, focusing on designing advanced electrical systems for diverse commercial projects. Maintains high standards of quality and compliance while delivering tailored solutions under tight deadlines.

- Designed medium to low voltage power distribution systems, meeting industry standards across various commercial projects.
- Developed comprehensive lighting control designs for educational establishments, prioritizing energy efficiency.
- Conducted detailed short circuit and coordination studies to ensure safety adherence and project success.
- Collaborated closely with multi-disciplinary teams to generate accurate electrical construction documentation without delay.
- Strengthened ongoing client relationships through timely updates and effective communication strategies, boosting repeat business significantly.
- Mentored junior engineers in using REVIT and AutoCAD, substantially enhancing workflow and project outcomes.

Junior Electrical Engineer January 2022 - May 2024
Green Energy Consultants Chicago, IL

Contributed to the design and implementation of electrical systems within institutional settings, working alongside experienced project managers to optimize project efficiency and visibility.

- Assisted in designing low voltage systems including fire alarms and security integrations for institutional facilities.
- Supported development of project scopes and presentations, increasing clarity and project tracking.
- Conducted site assessments to monitor progress and recommend improvements based on real-time conditions.
- Engaged actively in multi-disciplinary meetings, addressing technical issues effectively to streamline processes.
- Participated in drafting project proposals that significantly elevated the firm's acquisition rate.
- Gained expertise in energy modeling, supporting sustainable design practices and initiatives.

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, 2020
- First Place, Engineering Design Competition, 2021

EDUCATION

Bachelor's Degree in Electrical Engineering 2021
University of Illinois GPA: 3.5 Champaign, IL
Coursework: Circuits, Electronics, Power Systems, Control Systems

CERTIFICATIONS

- AutoCAD Certified Professional 📅 2025
- REVIT Certified User 📅 2025

TECHNICAL SKILLS

- **Design Software:** REVIT, AutoCAD, SketchUp
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Standards and Codes:** NEC, IBC, ASHRAE
- **Simulation Tools:** ETAP, MATLAB, PSpice
- **Modeling Software:** EnergyPlus, TRNSYS, OpenBuildings
- **Quality Assurance Techniques:** Peer Reviews, Checklist Use, Compliance Checks

- **Collaboration Software:** Slack, Microsoft Teams, Zoom
- **Field Instruments:** OmniTest, Fluke, Thermal Imaging
- **Documentation Standards:** ISO, ANSI, IEEE
- **Industry Certifications:** LEED Green Associate, PMP, DBIA

SKILLS

- MEP Design
- Client Relations
- Communication Skills
- Fire Alarm Systems
- Power Distribution
- Project Management
- Multi-Discipline Collaboration
- Energy Analysis
- REVIT
- Short Circuit Studies
- Field Assessment
- Documentation
- AutoCAD
- Lighting Design
- Sustainable Design

PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Volunteer, Habitat for Humanity Engineering Team

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST