

Nasim Salazar

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SUMMARY

Driven civil engineer with over five years of experience in the design and construction of water and wastewater conveyance systems. Expertise spans sewer collection, gravity sewer pipes, and water distribution projects, with solid grasp of conveyance design principles. Capable of leading multidisciplinary teams, supported by strong capabilities in project management, budgeting, and client interactions. Committed to delivering innovative engineering solutions that enhance community infrastructure while ensuring environmental sustainability. Engaging communicator who fosters collaborative partnerships to achieve project objectives and tackle complex challenges effectively.

EDUCATION

Bachelor of Science in Civil Engineering

University of New Mexico GPA: 3.8

2027

Albuquerque, NM

Coursework: Fluid Mechanics, Environmental Engineering, Structural Analysis, Water Resources Engineering

TECHNICAL SKILLS

- **Software Applications:** AutoCAD Civil3D, WaterCAD, StormCAD
- **Modeling Techniques:** Hydrologic Modeling, Hydraulic Modeling, Flow Diversion
- **Piping Materials:** Ductile Iron Pipe, PVC, HDPE, Concrete Cylinder Pipe
- **Construction Methods:** Trenchless Construction, Microtunneling, Auger Boring
- **Management Methodologies:** Project Scoping, Cost Estimating, Value Analysis
- **Regulatory Compliance:** Engineering Standards, Public Approvals, Technical Specifications
- **Client Engagement:** Relationship Management, Technical Presentations, Proposal Writings
- **Network Technologies:** Data Analytics, Application Development, Interface Design
- **Engineering Disciplines:** Sewer Collection, Water Distribution, Pipeline Rehabilitation
- **Research Techniques:** Data Analysis, Grant Proposals, Conference Presentations

SKILLS

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|----------------------|----------------------|--------------------------------|---------------------------|
| • Hydraulic Modeling | • StormCAD | • Public Speaking | • Pipeline Rehabilitation |
| • Project Management | • WaterCAD | • Trenchless Technology | • Budgeting |
| • Technical Writing | • Team Collaboration | • Environmental Sustainability | • Flow Metering |
| • AutoCAD Civil3D | • Sewer Design | • Client Relations | • Construction Documents |

EXPERIENCE

Civil Engineering Project Lead

University Project

January 2026 - Present

Albuquerque, NM

As a project lead, managed the design of a water distribution system for a simulated urban environment, emphasizing sustainable practices. Oversaw both technical evaluations and documentation efforts, ensuring adherence to established engineering standards. Collaborated actively with peers on interdisciplinary teams to integrate diverse factors into project deliverables.

- Led team of engineers in designing a sustainable water distribution system focusing on efficiency and performance.
- Conducted specifications creation and technical evaluations to guarantee compliance with engineering standards.
- Applied hydrologic modeling techniques to optimize flow rates reflecting real-world conditions.
- Worked within multi-disciplinary groups aiming for cohesive understanding between environmental and engineering goals.
- Generated project documentation and delivered presentations, receiving significant praise for clarity from industry professionals.
- Participated in trenchless technology workshops, refining methodologies applied during project phases.

Research Assistant

Academic Research

August 2025 - December 2025

Albuquerque, NM

Aided in research focused on stormwater management, contributing critical insights using advanced software applications. Engaged in experimental assessments demonstrating various approaches towards effective retention solutions available for urban settings.

- Analyzed cutting-edge stormwater management techniques relevant to modern urban environments.
- Utilized StormCAD and WaterCAD for detailed modeling of stormwater flows assessing practicality.
- Contributed as published co-author on sustainability methods within civil engineering context based on data analysis.
- Participated actively in practical tests gauging effectiveness of newly developed stormwater systems.
- Assisted faculty with grant proposal preparations drafting insightful narratives and data interpretations.
- Strengthened public speaking skill set through informational presentations held during departmental seminars.

Team Member

March 2025

Hackathon Project

Albuquerque, NM

Engaged in a competitive environment constructing a prototype for an intelligent water management system within a tight timeframe. Fostered collaboration while advising on tech integration, enhancing fellow team member's contributions throughout.

- Collaborated to develop a prototype utilizing Python for smart water usage predictions based on analyzed data.
- Presented end product in front of judges achieving notable recognition for creative innovation and effective functionality.
- Conducted usability testing enhancing user-access priorities embedded in functional programming code.
- Crafted technical documents serving as foundational resource for future versions and adaptations of the platform.
- Streamlined team efforts through regular brainstorming and constructive feedback sessions promoting collective learning culture.
- Responsible for interface creation making comprehensive data more accessible for stakeholders.

PORTFOLIO

Title: Project Portfolio

Link: Online Portfolio

Description: Showcase of academic and research projects including designs, technical papers, and presentations.

LEADERSHIP & AWARDS

- Dean's List, University of New Mexico, 2025
- Winner, Best Project at Engineering Hackathon, 2025

CERTIFICATIONS

- Fundamentals of Engineering (FE) 📅 2026
- Autodesk Certified Professional: Civil 3D 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society, 2025 – Present
- Volunteer, Albuquerque Community Clean-Up Initiative, 2025 – Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST