

SERGIO ARATH GUZMAN

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EDUCATION

Bachelor of Science in Industrial Engineering - GPA: 3.77

*Ingram School of Engineering – ABET Accredited Program
Texas State University – San Marcos, Texas*

(Anticipated Graduation: DEC 2027)

Associate of Applied Science in Architectural Design - GPA: 3.51

Texas State Technical College – Waco, Texas

(AUG 2021)

HONORS AND AWARDS

- Honors Award for Associate of Applied Science at Texas State Technical College

(AUG 2021)

RESEARCH EXPERIENCE

Undergraduate Researcher – Digital Twin Development, Manufacturing, and AI Automation in Makerspace
(College of Engineering, Texas State University)

(January 2026–Present)

- Awarded competitive undergraduate research grant to investigate AI-driven automation in makerspace workflows.
- Designing and evaluating automation tools to reduce operational friction, improve accessibility, and support sustainable system management.
- Conducting independent research under faculty guidance, including process analysis, experimentation, and documentation of findings.
- Translating technical insights into practical applications for shared engineering environments.

TECHNICAL SKILLS AND CERTIFICATIONS

- Computer** - Microsoft Office Suite, AutoCAD, AutoCAD C3D, Revit, SolidWorks, Minitab, MATLAB, C, Python, Assembly Code, Systems Standardization and Troubleshooting
- Engineering – Exhibits**, Blueprints, Schematic Drawings, Construction Plans, Record Drawings, Public Municipal Records, Quality Assurance, Quality Control, Process Documentation, Vendor Submittals
- Project Management** – Leadership, Inner and Cross-functional team collaboration, Client and Agency Liaison, Onboarding and Training, Deadline Driven, Milestone Documentation, Workflow Standards, Standard Operation Procedures (SOPs), Process Optimization, Best Practices, Process Mapping, DMAIC, KPIs
- Soft Skills** - Conflict Resolution, Public speaking and Presentations, Training Seminars, Fluent in English and Spanish, Continuous Improvement, Customer Service

WORK EXPERIENCE

Public Infrastructure Designer: Water/Wastewater (Westwood Professional Services, Austin, TX)

(November 2021-Current)

- Lead design & drafting of water/wastewater systems, collaborate with cross-functional teams to meet objectives, goals, and deadlines.
- Lead standardization/continuous improvement of CAD workflows, enhance productivity, and maintaining high-quality deliverables.
- Prepare comprehensive project deliverables, exhibits, construction plans, and documentation; from initial proposals to final approval and record submissions.
- Maintain up-to-date knowledge of design codes, regulations, city ordinances, and permitting processes, ensuring all projects comply with relevant standards.
- Establish, maintain, and serve as primary point of contact on communication channels with review agencies, clients, and internal teams, providing consistent updates and reports per project needs.
- Support, train, onboard, and mentor junior engineers and drafters, providing guidance, constructive feedback and hands-on instruction to foster professional growth.
- Review work completed across teams to ensure consistency and high-quality deliverables.

Electrical Designer: Substations (Westwood Professional Services, Austin, TX)

(Jan 2024-Jun 2024)

- Aid in the creation of complex SCADA design schematics, Physical wire diagrams, 1 line, 2 line, and 3 line physical plant diagrams.

Property Manager (Cassa Grande, Dallas, TX)

(May 2015-Dec 2024)

- Oversee property operations, tenant relations, generate lease agreements, and ensuring high standard of property maintenance.
- Developed marketing strategies and leads for prospective tenants, utilizing digital networking to maintain full occupancy.
- Manage day-to-day operations, address tenant concerns and resolving complaints to ensure customer satisfaction and retention.
- Cultivate strong problem-solving and conflict resolution skills, effective handling of tenant issues and maintain positive relationships.

RELEVANT PROJECTS & ACCOMPLISHMENTS

- Collaborated with cross-functional teams on over 10+ municipal infrastructure projects (pump stations, water/wastewater extensions, roadway expansions), delivering accurate design packages that supported project approval and construction.
- Texas Water Crisis Data Analytics Dashboard – Lead Data Analyst & Developer (FEB 2026)**
 - Engineered interactive web dashboard analyzing statewide water demand, supply, and infrastructure needs across all 254 Texas counties through 2070 using TWDB State Water Plan data.
 - Deployed production system via GitHub/Vercel with dynamic choropleth mapping, sector demand breakdowns, and CSV export capabilities
 - Processed 436K+ data points using Python, Plotly.js, and statistical analysis for TXST Love Data Week 2026.