

MATTHEW LONGORIA

Arlington, TX | 817-713-5285 | matthewalongoria@gmail.com

CIVIL ENGINEERING | Texas EIT No. 67963

Texas EIT with a master's in civil engineering focused on water resources. Experience includes civil site plans, subdivision plan and profile sheets, drainage modeling, utility infrastructure, and GIS mapping, with project support for TxDOT, BNSF, FEMA, and NRCS.

PROFESSIONAL EXPERIENCE

Aquila Corporation

Design Engineer

Evansville, IN (Remote)

Nov 2024 - Present

- Designed and drafted backbone and FTTH networks spanning 200+ miles for Mainstream Indiana Fiber and backbone networks spanning 100+ miles for GLO Fiber Ohio.
- Prepared Vetro Fiber and Katapult fiber and route designs for 100,000+ feet of path; supported ArcGIS troubleshooting and ArcGIS Online programming and templates.

FSC Engineers

EIT

Columbus, TX (Remote)

Nov 2023 - Oct 2024

- Designed XTO lease drilling pads and prepared plan and profile sheets for small residential subdivisions in Bentley OpenRoads.

P&D Engineers

Civil Engineering Associate

Norcross, GA (Remote)

May - Nov 2023

- Prepared civil site plans for substation and transmission line construction and utility Stormwater Pollution Prevention Plans (SWPPPs); supported GIS databases and cartography.

Collabra / Oncor

GIS Analyst, Contract

Fort Worth, TX (Hybrid)

May 2022 - May 2023

- Updated electric transmission spatial data from new construction plans using Esri tools; tested data for issues and maintained internal GIS records, easement mapping, and cartography.

CCI Systems

Design Engineer

Remote

Aug 2021 - Jul 2022

- Designed fiber and coaxial route site plans in CAD and GIS; updated existing designs and organized project drawing revisions and record drawings.

HDR

Civil EIT

Dallas, TX

Jan 2019 - Feb 2020

- Performed hydrologic and hydraulic modeling, stormwater collection system modeling, data collection, and cost estimating for drainage projects.
- Supported TxDOT and BNSF drainage, NRCS dam rehabilitation design, and FEMA flood mapping using Esri tools.

EDUCATION

Master of Engineering in Civil Engineering | Texas A&M University | Water Resources

GIS Graduate Certificate | The University of Texas at Arlington | Urban Planning | GPA 4.0

Bachelor of Science in Geophysics | Texas A&M University | Minors: Geology, Mathematics

TECHNICAL SKILLS

Design: Bentley OpenRoads, MicroStation, ProjectWise, Civil 3D, Bluebeam; site plans, plan and profile sheets

Water resources: Hydrology and hydraulics (H&H), stormwater modeling, FEMA mapping, SWPPPs

GIS: ArcGIS Pro, ArcMap, QGIS, Google Earth; database management and cartography

AI and development: ChatGPT, Codex, Gemini, Antigravity, GitHub, Python, Linux, local LLMs.

SCHOLARSHIPS LEADERSHIP AND AFFILIATIONS

Scholarships: WEAT NTS Scholarship; V. M. Ehlers Scholarship; Joyce & Don Dunlap Scholarship.

Aggie Transition Camp (T-Camp) Counselor | Texas A&M University

- Helped incoming transfer students connect and adjust to university life through orientation activities.

Affiliations: American Society of Civil Engineers (ASCE); Texas Floodplain Management Association (TFMA);

Geospatial Professional Network (GPN, formerly URISA); Project Management Institute (PMI).