Caleb Mendoza

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My Key Qualifications

- **EIT certified** in North Carolina, with a BS in Civil Engineering from NC State (2025).
- 1 year of land development and site design experience at WithersRavenel, supporting commercial and residential projects from May 2025 to present.
- Prepared **plan sheets, pipe networks, and quantity takeoffs for 6 site packages** in AutoCAD Civil 3D, delivered on internal deadlines.
- **Hydraflow** and spreadsheet-based runoff and inlet sizing calculations, cutting a municipal resubmittal's plan check comments from 4 to 1.
- Compiled **5 zoning, land disturbance, and utility permit packages** in North Carolina, submitted with no missing-document returns.
- **HydroCAD and HEC-RAS** modeling on a municipal stormwater retrofit capstone, cutting 10-year peak discharge 18%.
- Site visits and survey review for design documents, plus a complete erosion and sediment control plan set with 14 bid items.

Experience

Civil Engineer I — **WithersRavenel**, a North Carolina civil engineering, surveying, and planning consultancy

May 2025 – Present · 1 yr 6 mos

- Prepared plan sheets, pipe networks, and quantity takeoffs for 6 commercial and residential site packages in AutoCAD Civil 3D, building alignments, surfaces, grading elements, and utility layouts from survey and design markups, with all 6 submittals delivered by internal deadlines.
- Supported stormwater design for detention and closed drainage systems by running runoff and inlet sizing calculations in Hydraflow and spreadsheet tools, cutting a municipal resubmittal from 4 plan check comments to 1.
- Compiled zoning, land disturbance, and utility permit packages for active projects, coordinating forms, plan sets, calculations, and response logs with project engineers and local agency checklists; submitted 5 packages with no missing-document returns.
- Assist with survey review and field visits to document existing conditions and construction issues on North Carolina site development projects, working under senior engineer guidance.

Education

- **North Carolina State University** — Bachelor of Science in Civil Engineering · 2021 – 2025 · Relevant coursework: Hydrology, Water Resources Engineering, Transportation Engineering, Soil Mechanics, Construction Engineering

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Projects

- **Municipal Stormwater Retrofit Capstone**
  Analyzed drainage improvements and detention sizing for a municipal roadway basin to reduce localized flooding, supporting conceptual retrofit planning for a public client. Modeled alternatives in HydroCAD and HEC-RAS that lowered the 10-year peak discharge by 18%.
  Tech: HydroCAD, HEC-RAS, AutoCAD Civil 3D, Microsoft Excel
- **Erosion Control Plan for Campus Expansion Site**
  Developed a complete grading and erosion and sediment control package for a proposed academic building site using survey and soils data. Produced a full plan set and estimate with 14 bid items.
  Tech: AutoCAD Civil 3D, ArcGIS, Microsoft Excel

Skills

- **Design & Analysis Tools:** AutoCAD Civil 3D, Hydraflow, HydroCAD, HEC-RAS, ArcGIS, Bluebeam Revu
- **Civil Engineering Practice:** Stormwater Design, Erosion and Sediment Control, Permitting, Plan Production, Quantity Takeoffs

Certifications

- **Engineer in Training (EIT)** – North Carolina Board of Examiners for Engineers and Surveyors (2025)

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