

TOM TIGER

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EDUCATION

University of Memphis, Memphis, TN
Bachelor of Science, Civil Engineering

Expected Graduation: May 2026

- GPA: 3.5/4.0
- Relevant Coursework: Structural Analysis, Transportation Engineering, Geotechnical Engineering, Fluid Mechanics, Surveying, Environmental Engineering, Construction Management, Engineering Hydrology

RELEVANT EXPERIENCE

Clark Construction, Memphis, TN
Civil Engineering Intern

May – August 2024

- Supported the design and drafting of stormwater drainage systems using AutoCAD Civil 3D and HydroCAD
- Conducted field inspections and site surveys for road rehabilitation projects across 3 counties
- Helped reduce estimated project delays by 15% through accurate GIS mapping and data reconciliation
- Created reports and plan sets reviewed by professional engineers for submission to the DOT

University of Memphis- Civil Engineering Lab
Undergraduate Research Assistant

Aug 2023 – Present

- Assisted in finite element analysis of reinforced concrete beams using SAP2000
- Performed materials testing (compression, tension, flexural strength) on concrete specimens
- Analyzed stress-strain data and contributed to poster presentation at ASCE Student Symposium

PROJECTS EXPERIENCE

Capstone Project: Sustainable Bridge Design for Local Park

- Designed a 60-ft pedestrian bridge using steel trusses in compliance with AISC and AASHTO standards
- Used AutoCAD, Revit, and STAAD.Pro for modeling and load analysis
- Delivered a full design report, cost estimate, and project timeline; received top score in class review

Traffic Flow Optimization – Urban Intersection Simulation

- Modeled a congested city intersection using Synchro and SimTraffic
- Proposed light timing changes that would reduce wait times by 20%, based on simulation results

VOLUNTEER WORK EXPERIENCE

Habitat for Humanity
Volunteer

Summer 2024

- Assisted in residential foundation pouring and framing

TECHNICAL SKILLS

- Software: AutoCAD, Civil 3D, Revit, STAAD.Pro, SAP2000, HEC-RAS, ArcGIS, MATLAB, MS Project
- Engineering Tools: Total Station, Leveling Equipment, Soil Testing Kits
- Certifications: OSHA 10-Hour Construction Safety, EIT Candidate (FE Exam Scheduled for Dec 2025)

CERTIFICATIONS & AFFILIATIONS

- Student Member, American Society of Civil Engineers (ASCE)
- OSHA 10-Hour Construction Safety & Health (2024)
- Leadership in Energy and Environmental Design (LEED) Green Associate (in progress)