Jeannine Mbabazi

Email: mbabazijeannine@gmail.com ~ Telephone: 615-919-4178

OBJECTIVE

To obtain opportunities that further develop technical and leadership skills, while obtaining personal growth and advancement tailored towards my career of choice in the field of Civil Engineering.

EDUCATION

Bachelor of Science in Civil Engineering – May 2022
Tennessee State University
Nashville, TN

Master of Science in Civil Engineering – December 2023
Tennessee State University
Nashville, TN

PHD-ENGR Computational Science
Tennessee State University
Nashville, TN
Expected Graduation – December 2026

GPA- 3.9/4.0

RESEARCH

Development of a virtual HVAC lab using BIM and AR – September 2020-May 2021
- Tennessee State University

Freight Transportation Operations – April 2021-May 2022
- Tennessee State University

Effectiveness of Cable Barrier Systems – September 2022- May 2025
- Tennessee State University

Grouping the Impact of Traffic Control Methods, Functional Categories, and Spatial Patterns on Intersection Safety – January 2023 – October 2023
- Tennessee State University

Time Optimization for Traffic Signal Control Using Genetic Algorithm with Machine Learning Enhancement May 2024 – June 2025
- Tennessee State University

Developing a master road network for Tennessee Statewide Travel Demand Modeling using ESRI Roads and Highway Network – May 2024 – Current
- Tennessee State University

UNIVERSITY LEVEL PROFESSIONAL AFFILIATIONS

ITE student chapter – Fall 2021-Current

- President - Fall 2021 – Fall 2023

ASCE student chapter - Fall 2021-Current

- Concrete canoe competition - Fall 2021

The Clean Water Professionals of Kentucky & Tennessee student chapter - Fall 2021-May 2022

AWARDS/HONORS

- POTUS Fellowship - May 2022- Current
- STAR scholarship - May 2022 – December 2023
- USDA scholarship - Fall 2021-May 2022
- TBR STEM scholarship - Spring 2021
- TN hope 2 scholarship - Fall 2020-May 2022
- TSU President and Dean's list - Spring 2021 – Fall 2023

SKILLS

- Computer software: OpenRoads, TransCAD, PTV VISSIM, SUMO, Bentley MicroStation and Geopak, Synchro, Scheduling Software, HCS, EPANET, Rocscience.
- Good time management, highly organized, multilingual, team player.

WORK HISTORY

Transportation Engineer Specialist 3- June 2022-Current

- Tennessee Department of Transportation| Nashville, TN
    - Reduced roadway incidents through design and implementation of safety countermeasures.
    - Collaborated with city officials, community organizations, and the public on traffic projects.
    - Resolved public concerns related to roadway safety, congestion, and accessibility
    - Applied transportation modeling, traffic analysis, and forecasting tools (e.g.,VISSIM, HCS).
    - Continually developed job skills and improved overall knowledge by attending seminars and training.

PROFESSIONAL EXPERIENCE

- Highway Design and Design Computations
- Signal Design
- Project Management
- Public Works
- Construction Surveying and Site Layout
- Land Use Approval Process

VOLUNTEER ACTIVITIES

Legacy Mission Village   Nashville, TN - May 2017-Current

- Preschool and ESL class assistance

World Relief Organization   Nashville, TN - Jan 2015- Jan 2017