

Denis D. Ruganuza

Current Address: Orangeburg, SC 29115
(641) 233-9117 | denisruganuza@gmail.com

OBJECTIVE SUMMARY

Graduate transportation engineering student interested in traffic operations, Intelligent Transportation Systems, and roadway design. Experienced in civil and transportation projects design and supervision, seeking to apply knowledge in sustainable transportation infrastructure solutions.

EDUCATION

South Carolina State University Master of Science in Transportation and Highway Engineering (Expected in Dec 2025) • GPA: 4.0/4.0	Orangeburg, SC
University of Dar es Salaam Bachelor of Science in Civil and Transportation Engineering • GPA: 3.5/4.0	Dar es Salaam, Tanzania

WORK EXPERIENCE

01/2024 – Present	SC State University Department of Transportation Engineering	Orangeburg, SC
Graduate Research Assistant <ul style="list-style-type: none">Designed field experiments and collected data on Autonomy – Enabled Ground Vehicle Navigation.Conducted research on traffic signs degradation, Connected and Autonomous Vehicles cybersecurity, and transportation impacts on food security.Utilized statistical testing, machine learning, and modeling to analyze data.Wrote research reports and journal articles to be published in peer-reviewed scientific journals.Presented experimental findings at conferences using presentations, graphs, charts, and other visual aids.		
November 2020 – January 2024	Trust Build Construction Company LTD	Dar es Salaam, Tanzania
Project Manager <ul style="list-style-type: none">Spearheaded efforts to identify, pursue, and secure new projects through proactive procurement strategies, contributing to business growth and successful contract acquisitions.Led meetings with clients and contractors to discuss project objectives, scope of designs, and expectations.Managed and directed construction operations and maintenance activities at project sites.		
December 2016 – October 2020	Building Water and Earthworks LTD	Dar es Salaam, Tanzania
Project Engineer <ul style="list-style-type: none">Used advanced software to conduct calculations for structural, hydraulic, and concrete designs.Directed and participated in surveying to lay out installations or establish reference points, grades, and elevations to guide construction.Inspected project sites to monitor progress and ensure specifications and standards were met.Served as mentor to new interns providing guidance, training, and support.		
July 2015 – Nov 2016	NCI Engineering Consultancy	Dar es Salaam, Tanzania
Civil / Structural Engineer <ul style="list-style-type: none">Analyzed, designed, and supervised the construction of multi-storey buildings.Completed As-Built drawings to ensure any deviations from the original design were reflected in construction plans.Estimated quantities and cost of materials, equipment, or labor to ensure economic viability.		
PROFESSIONAL ORGANIZATIONS & AWARDS		
<ul style="list-style-type: none">Vice President of the SC State Institute of Transportation Engineers Student Chapter (2025)Society student member of the American Society of Civil Engineers (2024-2025)Member of the Engineers Registration Board Tanzania (2015-present)3rd Place in SC State University BECT Student Research Symposium (2025)Poster presenter at the Transportation Research Board (TRB) Annual Meeting, January 5–9, 2025, in Washington, DC		

SKILLS AND SOFTWARE PROFICIENCIES

AutoCAD Civil 3D • ArcGIS Pro • MS Excel • Python • MATLAB • Microsoft Office applications • Oral Presentations • Technical Report