

# GIBRILLA MOHAMED KAMARA

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## EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Science in Civil and Environmental Engineering

Graduation: **May 2025**

**GPA: 3.24/4.0**

**Relevant Courses:** Structural Analysis, Structural Design, AutoCAD, Infrastructure Management, Geotechnical Engineering, BIM for Engineering, Construction and Facility Management, and Project Planning and Reporting.

Fourah Bay College, University of Sierra Leone

Freetown, Sierra Leone

Bachelor of Civil Engineering

Graduation: **April 2021**

**GPA: 3.5/4.0**

**Relevant Courses:** Computer Aided Design (AutoCAD) in Civil Engineering, Analysis and Design of Reinforced Concrete, Civil Engineering Construction, Environmental Engineering, Soil Mechanics, and Geotechnical Engineering and Application.

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## EXPERIENCE

Techsult & Company Limited Consulting Engineers

Freetown, Sierra Leone

**Civil Engineer**

July 2021 – September 2023

- Analyzed and designed **multi-story buildings** for over **250 business traders**, ensuring compliance with Structural standards.
- Created **detailed Structural drawings** and **bar bending schedules** for **15+ residential and commercial reinforced concrete buildings**.
- Conducted **site visits for 20+ new and defective concrete/steel buildings** to assess Structural conditions and propose rehabilitation strategies.
- Supervised **five + building projects**, overseeing construction, operations, and maintenance.
- Developed **construction schedules and milestones** to optimize project efficiency.

Kish Engineering Firm

Freetown, Sierra Leone

**Site Civil Engineer (Supervisor)**

February 2021 – April 2021

- Monitored **construction schedules**, addressing delays and improving efficiency by **10%**.
- Coordinated **concrete pours** to minimize material waste and reduce project downtime.
- Supervised **excavation works**, ensuring compliance with safety regulations and project timelines.
- Inspected construction sites to verify adherence to **engineering plans and safety standards**.
- Prepared **site reports for senior project engineers**, improving workflow efficiency by **135%**.

Techsult & Company Limited Consulting Engineers

Freetown, Sierra Leone

**Civil Engineering Intern**

June 2019 – October 2019

- Conducted **soil testing** for a **75 km road construction project** to evaluate foundation strength.
  - Analyzed **soil reports** to ensure compliance with project specifications.
  - Delivered high-quality work in accordance with **professional engineering standards**.
  - Led a team of **four interns** in producing accurate **structural drawings** that met client requirements.
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## PROJECTS

**Lumley Market – World Bank Resilient Urban Mobility Project**

Techsult & Company Limited Consulting Engineers, Freetown, Sierra Leone

September 2023

- Conducted structural integrity assessments and full building modelling using Robot Structural Analysis.
- Delivered Structural assessment reports and designed all elements to withstand proposed loads.

<b>Roadway Vehicular Slab Design</b>	
Techsult & Company Limited Consulting Engineers, Freetown, Sierra Leone	June 2023
<ul style="list-style-type: none"> <li>Modelled and applied the loads on the slab using Robot Structural Analysis Professional Software</li> <li>Designed, and produced detailed structural drawings of the slab using Robot Structural Analysis Professional and AutoCAD software respectively.</li> </ul>	
<b>Annie Walse Memorial School Roof Upgrade</b>	
Techsult & Company Limited Consulting Engineers, Freetown, Sierra Leone	May 2023
<ul style="list-style-type: none"> <li>Carried out roof inspections and designed all roof members using Robot Structural Analysis</li> <li>Prepared roof layouts and roof components in AutoCAD</li> </ul>	
<b>Rokel Commercial Bank Extension Project</b>	
Techsult & Company Limited Consulting Engineers, Freetown, Sierra Leone	April 2022
<ul style="list-style-type: none"> <li>Evaluated strength of structural elements using Schmidt hammer</li> <li>Authored compressive inspection reports with recommendations</li> </ul>	
<b>AI Office Building Rehabilitation</b>	
Techsult & Company Limited Consulting Engineers	January 2022
<ul style="list-style-type: none"> <li>Developed material schedule and conducted on-site structural inspections</li> <li>Drafted layout for beams and columns to support the building retrofit using AutoCAD</li> </ul>	
<b>Christ Church Office and Hall Redesign</b>	
Techsult & Company Limited Consulting Engineers	October 2021
<ul style="list-style-type: none"> <li>Designed primary beams, columns, and staircase using Robot Structural Analysis and hand calculations</li> <li>Created detailed bar bending schedules and slab layout drawings</li> </ul>	
<b>CBD (Central Business District) Waste Transfer Stations Construction</b>	
KISH Engineering, Architecture, and General Services, Freetown, Sierra Leone	June 2020
<ul style="list-style-type: none"> <li>Supervised excavation and safety procedures on-site</li> <li>Coordinated daily progress meetings, reporting, and milestone tracking</li> </ul>	
<b>75 km Road Construction Soil Analysis</b>	
Techsult & Company Limited Consulting Engineers, BO District, Sierra Leone	August 2019
<ul style="list-style-type: none"> <li>Performed Geotechnical tests (Atterberg Limits, sieve analysis) to access subgrade conditions</li> <li>Produced soil analysis reports guiding foundation design</li> </ul>	

SKILLS

<ul style="list-style-type: none"> <li><b>Structural Analysis and Design:</b> AutoCAD, Robot Structural Analysis, SAP2000, Etabs, Civil 3D, SkyCiv, Mathcad, and REVIT.</li> <li><b>Project Management:</b> Scheduling, milestones tracking, workflow optimization.</li> <li><b>Technical Skills:</b> Soil testing and analysis, structural drawing preparation, bar bending schedules.</li> <li><b>Soft Skills:</b> Leadership, effective communication, problem solving, and time management</li> </ul>	
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EXTRACURRICULAR ACTIVITIES

<ul style="list-style-type: none"> <li><b>Graduate Teaching Assistant (Grader),   Solid Mechanics</b>   <i>Carnegie Mellon University</i></li> <li><b>Scholarship Recipient -</b> <i>Menard Deep Foundation Institute (DFI) Scholarship</i></li> <li><b>Graduate Member</b>   <i>Sierra Leone Institute of Engineers (SLIE).</i></li> <li><b>Vice - President</b>   <i>EducAid Alumni Network - Sierra Leone</i></li> </ul>	<i>January 2024 – May 2024</i> <i>April 2025</i> <i>April 2022 - Present</i> <i>February 2023 - Present</i>
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