# Name: ASSOKA Zerwal

Civil Engineering (Structural) PhD Student

Nationality: Togolese



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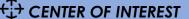
Juja, Kiambu, Kenya



LANGUAGES







Manga

Scientific Review

Reading

**Traveling** 



@ REFERENCES

Prof John N. MWERO

PhD, R. Cons Eng, MIEK, Associate Professor of Civil (Structural) Engineering

E-mail: johnmwero1@gmail.com

Dr. PINDRA Nadjime

**Doctor Applied Mathematics** Researcher at the University of Lomé

E-mail: nadjimepindra@gmail.com

#### OBJECTIVE

Civil engineering researcher specializing in structural mechanics and concrete damage modeling, focused on enhancing infrastructure resilience through advanced computational and experimental approaches.

#### SCHOOL COURSE

Since 2024 : PhD – Civil Engineering (Structural) PAUSTI, Juja, Kenya

**Research:** Thermodynamic variational modeling of crack propagation in porous concrete

2019 - 2021 : Master – Civil Engineering FORMATEC, Lomé, Togo

**Research:** Damage modeling in concrete structures: Influence of specimen shape and size on their resistance

2016 - 2019 : Bachelor **University FORMATEC (Togo)** 

### RESEARCH INTERESTS

- ☐ Crack propagation in concrete structures
- ☐ Thermodynamic modeling and poroelasticity
- □ Structural durability and fracture mechanics

### RESEARCH EXPERIENCE & PROJECTS

- ☐ Doctoral Research: Developing a thermodynamic-based variational approach to model crack propagation in porous concrete.
- ☐ Master's Research: Investigated the influence of specimen size on concrete resistance using numerical and experimental approaches.

# **TECHNICAL SKILLS**

- ☐ Computational Modeling: FEniCS, MATLAB,
- ☐ Programming: Python (for numerical simulations)
- Material Testing & Characterization
- ☐ Structural Design: Robot Structural Design
- ☐ Architectural Design: ArchiCAD, AutoCAD