

CONTACT

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Cheikh Oumar Sy

Zenodo – Research Paper

Driver's License (Class B)

TECHNICAL SKILLS

Structural Engineering: Reinforced concrete · Steel structures · Structural design · Load assessment · Eurocodes · BAEL · DTU

Design: Formwork · Reinforcement detailing · Construction details · Structural calculations

Inspection: Drawing review · Code compliance · Quality control · Technical inspection

Structural Analysis: Modelling · Static, dynamic and modal analysis · EN 1990 · EN 1991-2

Computational: Python · Jupyter · Numerical modelling · Calculation automation

Cost Estimation: Quantity take-offs · Bills of quantities · Progress measurements · Cost estimates

CORE STRENGTHS

- Attention to detail and accountability
- Analytical thinking and problem-solving
- Leadership and project management
- Adaptability and teamwork

SOFTWARE

- RSA, CYPECAD, Graitec, CBS
- DDC, EXPERT, RMD7
- AutoCAD, Revit, ArchiCAD
- Jupyter, VS Code (Python)
- Microsoft Office, L^AT_EX

LANGUAGES

- French (fluent)
- English (technical proficiency)
- Wolof (fluent)

INTERESTS

- Applied research in civil engineering
- Basketball and running
- Travel and cultural discovery

CIVIL STRUCTURAL ENGINEER

Civil engineer specialising in structural engineering, with experience in technical inspection. Skilled in **structural analysis and modelling**, preparation of construction drawings, and compliance reviews. Also experienced in training users in structural analysis software.

PROFESSIONAL EXPERIENCE

June — Aug. 2026 (3 months) — Aug. — Oct. 2025 (3 months) Aug. — Sept. 2024 (2 months)	STRUCTURAL ENGINEERING INTERN – TECHNICAL INSPECTION OFFICE SEATEC SENEGAL, Dakar, Senegal - Reviewed formwork, reinforcement and structural calculation drawings. - Inspected steel structures and checked compliance with construction drawings. - Performed site quality control and reinforcement inspections; prepared technical reports. PLUMBING SITE ENGINEER INTERN SENTRA BTP SA, Dakar, Senegal - Monitored plumbing works across a 222-villa development. - Supervised structural works on an R+3 villa. - Managed material procurement and prepared progress measurement statements. CONSTRUCTION SITE ENGINEER INTERN SENTRA BTP SA, Dakar, Senegal - Monitored foundation works for an R+7 building with a basement. - Supervised and coordinated site teams. - Managed material stock and procurement.
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FREELANCE WORK

2024 – Present	FREELANCE REINFORCED CONCRETE DESIGNER Independent Projects, Senegal - Prepared construction drawings for formwork, reinforcement and reinforced concrete. - Reviewed drawings for compliance and identified design discrepancies. - Prepared technical reports with corrections and recommendations.
2026 – Present	STRUCTURAL ANALYSIS SOFTWARE INSTRUCTOR Online - Provide training in structural analysis software. - Model and analyse reinforced concrete buildings. - Design structural elements. - Prepare formwork and reinforcement drawings.

COMMUNITY ENGAGEMENT

2026 — Present	TEAM BÊS – VOLUNTEER Community service – Painting and school refurbishment, Dakar, Senegal - Participated in painting and refurbishing school facilities. - Contributed to collective initiatives to improve the school environment.
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EDUCATION

2023 — 2026	ENGINEERING DEGREE IN CIVIL ENGINEERING (DIC) Institut Polytechnique de Saint-Louis (IPSL), Saint-Louis, Senegal
2021 — 2023	HIGHER DIPLOMA OF TECHNOLOGY IN CIVIL ENGINEERING (DST) École Supérieure Polytechnique de Dakar (ESP), Dakar, Senegal
2018 — 2021	SCIENTIFIC BACCALAUREATE (S1) Lycée Maba Diakhou BA (LMDB), Nioro du Rip, Kaolack, Senegal