

Ernest T. Mandisodza

SENIOR ARCHITECTURAL TECHNOLOGIST / BIM COORDINATOR

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Dubai, United Arab Emirates



DISCIPLINE

Architecture / BIM

EXPERIENCE

12+ Years

AUTHORING

Revit · LOD 100–350

COORDINATION

Visual · In-model

CLIENTS

Emaar · Eagle Hills · ADC

PROFILE

01

Senior architectural technologist and BIM coordinator with 12+ years across data centre, supertall and high-rise residential, social housing, master planning and institutional work in the UAE, Nigeria, DR Congo and South Africa. **Senior technologist** on mixed-use township master planning and residential estate delivery, carrying schemes through estate design review and municipal approval and staying with them into construction via RFIs. **Coordination** held directly on KenMas residential projects — QA/QC and visual and in-model clash coordination against structural and MEP teams, with the architectural model as the source for issued drawings. Equally at home starting from a measured survey of an existing building as from a blank sheet. Regulatory delivery under SANS 10400, Dubai Municipality requirements and Eko Atlantic Building Regulations, with Estidama Pearl Rating work on a branded residential estate in Abu Dhabi.

COORDINATION PROCESS

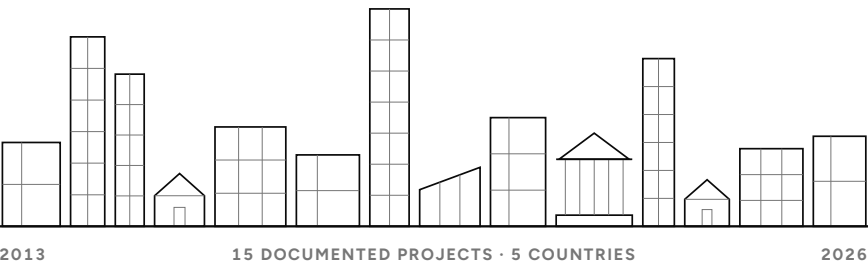
02 / SEQUENCE

01 Brief & Scope Assigned scope, milestone and LOD target agreed with the lead before authoring begins.	02 Authoring to LOD Model built to the milestone LOD target — geometry and data, not geometry alone.	03 Link Disciplines Structural and MEP models linked in so the architecture is read against them, not alone.	04 Clash Coordination Visual and in-model interrogation by discipline pair, filtered down to conflicts worth acting on.
05 Report Back Conflicts written up and sent to the coordinator or consultant who owns the fix.	06 Review Walk the model with the team. Fixes land in the model, never in the drawing alone.	07 Re-check & Issue Re-check that reported conflicts are closed, then sheets issued from the cleared model.	08 Site Verification Snagging and QA/QC inspection against the model; deviations captured and fed back as-built.

The cycle I work to. Steps 03–07 repeat per milestone; nothing is issued out of an uncoordinated model. Clash coordination is carried out visually and in-model.

DELIVERY RECORD

03 / ELEVATION



THREE THREADS

04 / RECORD

EXISTING STOCK

Hand-measured survey to BIM, and condition assessment of occupied buildings. Three projects — Swartkop, Flamingo Heights, Lotus.

TWO-STAGE APPROVAL

Schemes carried through estate design review and municipal approval. Two separate bodies, different criteria.

SECTOR RANGE

Data centre · Supertall residential · Social housing · Master planning · Education · Heritage — and condition assessment.

COORDINATION STACK

AUTHORING

Revit — advanced
AutoCAD — advanced
ArchiCAD — working

APPLIED IN DELIVERY

Visual & in-model clash coordination
Survey-to-BIM / as-built capture
Autodesk Construction Cloud

WORKING KNOWLEDGE

Navisworks · Dynamo · BIM 360 worksharing ·
Bluebeam Revu

VISUALISATION

Twinmotion · Lumion · Enscape · V-Ray · 3ds Max

DOCUMENTATION

Adobe InDesign · Illustrator · Photoshop · MS Office

DELIVERED LOD RANGE

100 200 300 350 400 500

Core delivery 300–350, including supertall residential at LOD 350. Clash coordination carried out visually and in-model.

STANDARDS & CODES

SANS 10400 Dubai Municipality
Abu Dhabi IBC Eko Atlantic Regs
Estidama Pearl — Bvlgari only

EDUCATION

2015 · HARARE POLYTECHNIC

National Diploma, Architectural Design & Technology
— incomplete

2013 · HARARE POLYTECHNIC

National Certificate, Architectural Design & Technology

DETAIL

LANGUAGES

English — fluent

LOCATION

Dubai, UAE
Available internationally

RESIDENCY

UAE resident permit

DIRECTION

TARGET

Robotics-aligned BIM coordination
Extending model-to-site verification toward automated reality capture and deviation analysis. Working knowledge of C#, HTML and CSS.



PORTFOLIO

ernix.io

Scan for project imagery, drawings and renders.

SECTION	SPAN	TERRITORIES	PRACTICES
Experience	2013 — Present	UAE · Nigeria · DRC · South Africa · Zimbabwe	08
EXPERIENCE	05	SITE CAPABILITY	
Mirage Leisure & Development · UAE	AUG 2025 — PRESENT	– Snagging & defect registers – QA/QC inspection reporting – Contractor coordination – Progress reporting – Model-to-site verification	
BIM ARCHITECT		WHAT I BRING	
– Architectural model authoring on supertall residential for Emaar at Dubai Creek Harbour — twin towers at 300m+, 400+ units, 50,000+ sqm — taken from schematic to detail design at LOD 350. – Architectural authoring on an ultra-luxury branded residential estate in Abu Dhabi, carrying multiple mansion typologies from detail design through to tender documentation. – Work assigned and reviewed by the project BIM coordinator; contribute architectural scope to the project model and support architectural–structural clash checking. – Produce architectural drawing output feeding each stage submission package.		– Catch it in the model. Conflicts found and reported before issue cost a fraction of what they cost on site. – Site literacy. Ten years of snagging and QA/QC means I know which clashes matter on site and which are noise in the report. – Documentation from the model. Sheets are an output of coordination, not a parallel workstream that drifts from it. – Drawings that match the building. Measured survey and as-built capture when the record is wrong or missing.	
MCE Architects · South Africa	JAN 2024 — JAN 2025		
SENIOR ARCHITECTURAL TECHNOLOGIST			
– Urban design and master planning within the design team on Hospital View, a mixed-use township development taken to a provincial legislature for review. – Produced the master-planning layout — siting social housing and CRU units alongside schools, shopping centres, hospitals and clinics as a single spatial framework. – Produced the project’s graphical output, including the material supporting the provincial legislature review.			
Deepblack Property Developers · South Africa	2019 — FEB 2025		
ARCHITECTURAL TECHNOLOGY LEAD			
– Led architectural technology delivery across commercial and social housing schemes from feasibility to construction documentation, authoring in Revit with the model as the source for issued drawings. – Longest-held role on this CV — six years and 15+ projects, predominantly social housing and CRU (Community Residential Units) schemes, property development and town development, alongside smaller private residences. – Existing-stock work as well as new build — including Flamingo Heights, a condition assessment of existing social housing covering defects, building condition and repair needs, with the drawing record reproduced from scratch. – Coordinated with external structural and MEP consultants through design and documentation. – Delivered 3+ commercial projects to LOD 300, including documentation covering energy and water efficiency strategies.			
KenMas Architects · South Africa	2020 — 2023		
ARCHITECTURAL TECHNOLOGIST / REVIT TECHNICIAN			
– Technical delivery across four projects — 715 Oak Avenue (Ferndale), Edza Heights, Elisaph Apartments and Lotus Secondary School — spanning work stages 1–5 and existing-building assessment. – Held Architectural Technologist and BIM Coordinator roles together on 715 Oak Avenue, Ferndale — running coordination and QA/QC across the full package with the structural and MEP teams. – Carried out visual and in-model clash coordination, catching a high volume of conflicts and resolving them in-model before they reached site. – Conducted weekly site snagging inspections; issued defect registers and drove close-out with contractors, verifying built work against the model. – Produced coordinated models and full documentation sets to LOD 350 across concurrent projects.			
Cycad Architects · South Africa	2016 — 2019		
ARCHITECTURAL TECHNOLOGIST			
– Delivered residential design and documentation across work stages 1–5 at LOD 100–350. – Set up project models and drawing registers; coordinated consultant drawings into the architectural set for municipal submission and construction.			
Design and Build · D.R. Congo	2015 — 2016		
ARCHITECTURAL TECHNOLOGIST			
– Delivered work stages 1–5 with on-site technical support under a contractor-led design-and-build model, working to compressed construction programmes.			
Richnow · D.R. Congo	2015 — 2025		
FREELANCE CONSULTING — ARCHITECTURAL & BIM			
– Ten-year consulting relationship providing architectural and BIM support on projects in the DRC. – Revit authoring, documentation and visualisation delivered remotely alongside South African and UAE roles.			
Inov-Afric · Zimbabwe / South Africa	2013 — 2024		
FREELANCE CONSULTING — ARCHITECTURAL & BIM			
– Outsourced work stages 1–3, BIM production and technical support to architects and developers. – Picked up incomplete models from other offices and brought them to a documentable, issuable state.			