

ERNEST T. MANDISODZA

SENIOR ARCHITECTURAL TECHNOLOGIST / BIM COORDINATOR

DISCIPLINE ARCHITECTURE / BIM	EXPERIENCE 12+ YEARS	AUTHORING REVIT · LOD 100-350	COORDINATION VISUAL · IN-MODEL	CLIENTS EMAAR · EAGLE HILLS · ADC
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PROFILE

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

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.

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
- RESIDENCY**
UAE resident permit



PORTFOLIO
ernix.io
Scan for project imagery, drawings and renders.

EXPERIENCE

03

MIRAGE LEISURE & DEVELOPMENT · UAE

Aug 2025 — Present

BIM Architect

- 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.

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.

SITE CAPABILITY

- Snagging & defect registers
- QA/QC inspection reporting
- Contractor coordination
- Progress reporting
- Model-to-site verification

WHAT I BRING

- **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.