BUSISIWE MGWENYA

Architecture | VR & XR | Speculative Futures Design

HELLO, IM BUSI!

A designer, artist and architectural technologist. My design practice centers around creative coding, emerging future user Experiences such as VR and XR photogrammetry and 3D scanning in the built enviroment . I have a background in architecture, currently pursuing projects in alternative user experiences, creative coding in tech and information technology consumption. I possess sound skills in graphic presentation techniques, 3D Modelling, stakeholder engagement, and computer aided draughting

EXPERIENCE

Freelance consultant| July 2021-present

- Registered consultancy K2021824422 (Pty Ltd). Collaborated with registered architects to develop architecture plans, drawing 3D models.
- Design work , ranging from speculative futures thinking visuals, writing and research
- Working in DOAs, smart contracts, NFT art minting and education around art as crypto currencies and web 3.0

Our Future Cities NPO| Intern| 2021

- Creating vibrant Social Media advocacy campaigns and graphics
- Compile field data and reports about public spaces and mobility.
- Communicating and building awareness of urbanism issues with social media
- Researching new strategies, methods and tools in planning and design fields.
- Researching design challenges and opportunities on multiple scales for development projects.
- Stakeholder mapping and engagement in projects.

Malherbe Rust Architects| Architectural Technologist| 2019-2020

- Writing and research of heritage conservation applications
- Surveying and documenting of heritage buildings
- Drawing of building plans from concept to construction.
- Compiling municipality submission drawing sets according to building regulations.
- Site / construction work visits

EDUCATION

Institute for Advanced Architecture of Catalunya| Sep 2021- July 2022

Masters of Design in Emergent Futures
Major Subjects: Design thinking, digital fabrication, hardware design, computational thinking, Emergent Technologies exploration

University of Cape Town| 2021

Landscape Architecture (Honours Degree)
Major Subjects: Landscape Studio, Landscape Systems Analysis, Aspects of City Design, History and Theory, Plants and Design.

Tshwane University of Technology| 2015- 2018

Architecture (Professional) Undergraduate Degree
Major Subjects: Architectural Design, Urban Design, Theory of Architecture, Construction Methods & Materials, Project Management.

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TECHNICAL SKILLS

Unity VR Assets
Blender
Rhino
Photoshop
Illustrator
AutoCAD
ArchiCAD
Javascript
ReCap
Meshroom
p5.js
Arduino

PROFESSIONAL SKILLS

- Prototyping and Lo-fi solutions of designs
- Awareness of electronics and Arduino
- Awareness of HackMD Github and HTML
- Javascript
- Architectural Design

WORKSHOPS

Stellenbosch University Museum 2020

Heritage Conservation and Architectural Styles Short Courses

EASA | 2017 + 2019

European Architecture Student Assembly Summer School

PUBLICATIONS

Text and image contribution to NIAIU Poland Urban Summer School Research Report 2018.

LANGUAGES

- English (Proficient, Native)
- iSiswati (Mother tongue, Native)
- Afrikaans (Advanced, C1)
- Spanish (Basic, A1)