

BHAVIK M VEKARIA

SENIOR ARCHITECT, INTERIOR DESIGNER & BIM-AI AUTOMATION LEAD

CONTACT

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Portfolio:
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EDUCATION

Bachelor of Architecture
CEPT University — 2016

Diploma in Architecture
Parul Institute of Technology, 2013-2016 — 9.6/10 CGPA

BIM, RIBA Structure, NSDC Certified Professional Course
Novatr — 2024, B Class

S.S.C Schooling (CBSE 10th)
Shree Swaminarayan Gurukul Intl. School — 2013, 8.6/10 GPA

CERTIFICATIONS

Revit Architecture 2022 — Autodesk, 2024

Navisworks Manage 2022 — Autodesk, 2024

BIM Managing — LinkedIn Learning, 2024

AI-Assisted BIM & Computational Workflows — Self-directed, 2025-2026

LANGUAGES

Gujarati — Advanced

Hindi — Advanced

English — Advanced

French — B2

Lingala — Intermediate

PERSONAL SKILLS

Adaptability

PROFILE SUMMARY

Senior Architect, Interior Designer, and BIM Coordinator with 8+ years of experience delivering 60+ residential, commercial, institutional, hospitality, and public-sector projects across Africa and India. Proven track record leading multidisciplinary teams through conceptual design, 3D visualization, and clash-free BIM coordination, cutting rework and documentation errors on every project delivered. Now pioneering AI-assisted architecture and BIM automation at NEOTEC AFRICA — deploying Claude Code and Codex CLI agentic workflows, MCP-based integrations for Revit and Grasshopper, and AI-driven rendering pipelines that have measurably compressed design-to-documentation timelines. Trusted by clients and contractors to deliver accurate, code-compliant, and efficient design solutions from concept to completion.

CORE COMPETENCIES

BIM Coordination • Clash Detection & Resolution • Revit API & Automation • Claude Code Automation • Codex CLI Agentic Workflows • MCP Server Integration • Grasshopper MCP • Dynamo & pyRevit Scripting • Construction Documentation • 3D Visualization & AI Rendering • Multi-Disciplinary Coordination (Arch/Struct/MEP) • Quantity Take-off & BOQ • Site Supervision • Team Leadership • Client & Contractor Relations

AI & COMPUTATIONAL AUTOMATION SKILLS

- Claude Code & Claude Desktop automation for BIM/design workflows
- Codex CLI agentic automation for scripting & documentation
- MCP (Model Context Protocol) server integration for Revit & Grasshopper
- Grasshopper MCP — connecting AI agents to parametric workflows
- AI-assisted rendering & visualization (D5 AI, Enscape AI, diffusion-based tools)
- Custom plugin & script development (Python, C#, Dynamo, pyRevit)
- Excel-to-Revit automation (openpyxl, CompoundStructure system families)
- Prompt engineering for design ideation & technical documentation
- AI-augmented clash detection & model QA workflows
- Computational design exploration with Rhino & Grasshopper

ARCHITECTURE SKILLS

- Conceptual & Schematic Design
- Space Planning
- Design Development
- 3D Modelling & Visualization
- Architecture Detailing
- Site Coordination
- Construction Documentation
- Interior Design Integration
- Facade Design & Development
- Material Selection & Specification
- Site Planning
- Sustainable Design Solutions

BIM SKILLS

- BIM Implementation & Management
- Clash Detection & Resolution
- Model Auditing & Quality Control
- Multi-Disciplinary Coordination (Arch/Struct/MEP)
- LOD Strategy & Execution
- Clash Detection Reporting & Documentation
- Revit Family Creation
- Quantity Take-off & Scheduling
- 4D Construction Phasing
- Project Information Management
- IFC & COBie Standards
- Model Coordination & Conflict Resolution

Self-Motivated
Attention to Detail
Creative Spirit
Critical Thinking
Accountability
Continuous Learning
Team Leading
Enthusiastic

■ ACHIEVEMENTS

University Gold Medalist
Led Architecture & BIM
Coordination on 40+
Projects
BIM Lead — Platinum
Tower
Authored 70+ Conceptual
Design Proposals
Coordinated 210-Unit
Housing Estate Delivery
Master-Planned a 1,000-
Home Residential
Development
Implemented Company-
Wide BIM Workflow
Standards
Pioneered AI-Assisted
Design & BIM Automation
at NEOTEC AFRICA
Clash Detection & Model
QA Specialist
Delivered International
Freelance Projects Across 3
Countries

■ REFERENCE

Mr. Jayesh Rupaliya
NEOTEC AFRICA LTD.

■ PROFESSIONAL SKILLS

- Team Leadership
- Client Consultation & Coordination
- Regulatory Compliance
- Problem Solving
- Technical Communication
- Time & Resource Management
- Site Supervision Support
- Project Presentation
- Deadline Management
- Cross-Disciplinary Collaboration

■ SOFTWARE SKILLS

- Revit 2025 — BIM Managing
- AutoCAD & AutoCAD Architecture
- Dynamo for Revit
- Navisworks Manage
- Rhino 3D & Grasshopper (developing)
- Grasshopper MCP / AI plugin tools
- Claude Code / Claude Desktop
- Codex CLI
- BIM 360 & BIM Interoperability
- SketchUp
- ArchiCAD
- Enscape, Lumion, Twinmotion, D5 Render
- Adobe Photoshop, InDesign, Premiere, Canva
- Microsoft Project
- MS Office

■ SPECIALIZATION

- Architecture & Interior 3D Modelling
- 3D Visualization & Animation
- Conceptual Presentations & Proposals
- AI-Assisted Design Ideation
- BIM Modelling & Coordination
- Architecture & Interior Planning & Consulting
- BIM Data & Information Organizing
- Site Coordination & Supervision

■ CAREER JOURNEY

Senior Architect, Interior Designer and BIM Coordinator

NEOTEC AFRICA LTD (Banjul, Gambia)

April 2024 – Present

- Lead design and BIM coordination for major developments including Platinum Tower, Ministry of Lands Headquarters, Cape Point Houses, and Bissau BSB-02, spanning 4 concurrent projects.
- Directed conceptual design for Royal Atlantic, a 161,350 m² mixed-use proposal, and led design and execution of Vineyard Restaurant plus multiple private residences with a two-member core team.
- Managed multi-disciplinary BIM workflows across architectural, structural, and MEP disciplines, reducing coordination clashes through systematic model audits.
- Introduced AI-assisted automation into studio workflows: Claude Code and Codex CLI for scripting and documentation, MCP server integrations linking Revit and Grasshopper to AI agents, and Excel-driven Revit family/system generation via Python/pyRevit, cutting manual modelling time on repetitive tasks.
- Supervised drawing production, detailing, and procurement documentation for all active projects, maintaining accuracy and design integrity.
- Chaired clash detection and coordination meetings with consultants, contractors, and site teams, resolving conflicts before construction.
- Oversaw on-site execution across 4 active sites, ensuring alignment with design intent, specifications, and construction timelines.
- Delivered high-quality 3D models, AI-enhanced renderings, and animations used in client presentations and design approvals.

Key Projects: *Platinum Tower, Ministry of Lands, Regional Government & Religious Affairs The Gambia, Bolanho Ramiro, Royal Atlantic, Emporium Showroom, DK Telecom*

Senior Architect and Interior Designer

SWAMI INDIA INTERNATIONAL LTD (Banjul, Gambia)

January 2022 – February 2024

- Led architectural and interior design for 40+ residential, commercial, institutional, and hospitality projects over a 2-year period.
- Delivered complete design solutions from concept through construction drawings, documentation, and site coordination.
- Proposed 10+ high-value design schemes ranging \$1.5M–\$61M; 9 approved and taken through to execution.
- Led design and site execution of a 210-unit housing estate comprising five distinct unit typologies.
- Collaborated with site engineers, project managers, and consultants to maintain quality, compliance, and on-time delivery.
- Produced 3D visualizations, animations, quantity take-offs, and procurement drawings, and resolved on-site execution issues directly.

Key Projects: *The Diplomat, Airport Residency, American University, The Horizon, GNIC, Barakah Apartments*

Junior Architect and Interior Designer

INFINITY VISUALS (Bhuj, India)

February 2021 – January 2022

- Designed 20+ residential and commercial projects with focus on interiors, facades, and space planning.
- Produced detailed execution drawings, 3D visuals, and client-ready presentations for each project.
- Coordinated site execution and material selection in line with design intent and project scope.
- Collaborated within a small team to deliver customized, timely design solutions.

Key Projects: *Ramya Residence, Shree Ram Minetech Office, Someshwar House, Apurva Soni Residence*

Freelancing Architect

SHREE HARI BUILDERS SARL (Kinshasa, DR Congo)

January 2018 – January 2020

- Delivered end-to-end architectural design and execution for small-scale residential and commercial projects.
- Created conceptual layouts, working drawings, and 3D models tailored to client needs.
- Developed a large-scale master layout for a 1,000-unit housing project spanning varied typologies.
- Coordinated directly with clients and contractors, keeping design approval and site execution on schedule.

Key Projects: *Cité Docteur Sulu (1000 Homes), Resort Cabins, 3-Storey Residence for Mrs Mama Matis*

Freelancing Architect

Private Clients (Bhuj, India)

September 2017 – January 2018

- Delivered end-to-end architectural design and execution for small-scale residential and commercial projects.
- Created conceptual layouts, working drawings, and 3D models tailored to client needs.
- Managed material selection, site communication, and project visualization.

Key Projects: *Residence G+1 - Mr. Dilip Bhai, Holiday Cabins (10 Units), Restaurant Concept - 100 m²*

Junior Architect and Interior Designer

DATTA AND DATTA ASSOCIATES (Ahmedabad, India)

September 2016 – August 2017

- Developed presentation and working drawings for public sector, PWD, and institutional projects.
- Contributed to documentation packages for government tenders and healthcare facilities.

Key Projects: *Ramya Residence, Shree Ram Minetech Office, Someshwar House, Apurva Soni Residence*

Intern Architect Assistant

DATTA AND DATTA ASSOCIATES (Ahmedabad, India)

January 2016 – June 2016

- Assisted in design development, 3D modeling, technical drawings, and site execution documentation for government projects.

Key Projects: *Law University Dwarka, SBI Gift City, NRHM Gondia*

I hereby declare that the above-mentioned information is true to the best of my knowledge.