

PRASANNA CHAURASIA

Architect | AI Enthusiast | Certified BIM ISO19650 & Construction Management | Sustainable Architecture, Parametric Design & Digital Delivery | Engineering & Execution

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Multidisciplinary BIM Architect and Civil Engineer with extensive experience delivering complex building and infrastructure projects across India and gained knowledge in UK. Skilled in BIM coordination, parametric modelling, and digital project delivery aligned with **RIBA stages, UK building regulations, planning permissions, and use classes**. Proficient in Revit BIM (with pyRevit, DiRoots, Blocks, BIMLogiq), Navisworks, AutoCAD, Rhino, and Primavera P6, integrating both conventional and AI-driven workflows to optimise design, collaboration, and delivery. Recognised as a **global competition winner (xfigura, Futurly)**, with a proven record of leading multi-disciplinary coordination, reducing delivery timelines, and driving sustainable, performance-oriented solutions within ISO 19650-compliant environments.

PROFILE SUMMARY

- Design and Software Proficiency:** Mastery in *AutoCAD 2D/3D, SketchUp & D5 Render, Lumion, Primavera P6*, and *Revit* with advanced use of plugins (*pyRevit, DiRoots, Blocks, BIMLogiq*) to automate workflows, manage federated models, and deliver ISO 19650-compliant outputs. Expertise in high-quality rendering and visualisation using *Photoshop, Maya, Rhino (Grasshopper)*, and *AI-assisted tools*.
- Sustainable and Innovative Solutions:** Skilled in applying sustainable design principles through projects such as *Radical Net-Zero Buildings* and *Green Infrastructures*, with practical integration of renewable technologies and SuDS strategies. Strong experience in aligning outputs to *UK building regulations, planning permission workflows, use classes*, and sustainability targets across RIBA stages.
- Project Management and Cost Optimisation:** Proficient in BIM-driven project scheduling, estimation, and resource management, demonstrated through large-scale housing and infrastructure projects. Experienced in using *Primavera P6, Power BI*, and AI-enabled dashboards for monitoring cost, time, and risk optimisation across project lifecycles.
- Multidisciplinary Collaboration and Leadership:** Proven ability to coordinate with architects, engineers, contractors, and clients across diverse geographies. Skilled at delivering RIBA-compliant documentation and stakeholder presentations, improving efficiency and reducing risk across design and execution stages.
- Innovation and Continuous Learning:** Winner of the **global xfigura (CEO George Guida) competition organised by Futurly**, recognised for excellence in integrating AI workflows into architectural design. Actively expanding expertise in **real-time AI integration, generative workflows, and automation** to enhance collaboration, design iteration, and decision-making. Dedicated to bridging conventional practices with cutting-edge technologies for more resilient and intelligent built environments.

EDUCATION

Novatr <i>Diploma in BIM BIM Architecture Professional</i>	Feb 2025 - Sep 2025
Manchester School of Architecture, Manchester Metropolitan University <i>Masters in Arts Architecture and Urbanism</i>	Sep 2023 - Oct 2024
IPS Academy, Institute of Engineering and Science, INDIA <i>Masters in Technology Construction Planning and Management</i>	Aug 2018 - Dec 2022
IPS Academy, Institute of Engineering and Science, INDIA <i>Bachelors of Engineering Civil Engineering</i>	Aug 2014 - Jun 2018

CORE SKILLS

Design Software: AutoCAD, Revit BIM (pyrevit, DiROots, BIMLogiq, Blocks), AI tools, Rhino (Grasshopper), Maya, Staad Pro, Primavera, MSP 2013, Sketchup, Lumion, Etabs, CAD Mapper, 3D Vista (VR/AR), Navisworks, D5 Render, GIS, Climate Consultant, 3ds Max.

AI Tools: xFigura, ComfyUI, Weavy, Runchat, Midjourney, RunwayML, Kling AI, LumaAI, Hypar AI, TestFit, Urbanist AI, F4Maps, Aino, ChatGPT, Forma, Rayon, Magnific x Krea AI, Street Design, Generative, Fabrie, Prome AI Pro, Architectures, EvolveLabs, Sidewalk Labs, Archsynth x Meshy, LTX Studio, Sun Diagrams, Sketchup FebHouse, Snaptrude, Spacio, Coohom, and many more.

Visualization Tools: Adobe Photoshop, InDesign, Illustrator, Adobe Premiere Pro, After Effects, Audacity, Canva.

Microsoft Office Tools: Access, PowerPoint Microsoft Word & Excel, Power BI, Outlook.

CERTIFICATIONS

- BIM Revit Architecture Professional Certification - 2025
- AI Masterminds (tools, automation, agents) - 2025
- Futurly 3D + AI (MC Studio x Futurly) - 2025
- Adv. Design Tools (Rhino & Grasshopper) - 2024
- Site Analysis & Climate Study for Sustainable Design – 2024
- Radical Net-Zero Buildings (ZHA) Certification - 2024
- Business Intelligence Using Power BI - 2022
- Lumion 8 - Photo Realistic Rendering - 2021
- SketchUp & V-Ray for Ext. & Int. Design – 2021
- Complete Estimation & Costing Course - 2019
- Earthquake Engineering Workshop - 2018
- Entrepreneurship Awareness Camp (EAC) - 2016
- Advanced Surveying Workshop - 2016
- AutoCAD 2D/3D Certification - 2015
- Building Design & Drawing Workshop - 2015

WORK EXPERIENCE

Architectural Creative Partner

xFigura | Boston, Massachusetts

09/2025 – Present

- Collaborating with **global designers, strategists, and AI researchers** to develop next-generation design workflows using AI Models Nano Banana, Seedream, Qwen, Hunyuan, and so on.
- Producing **AI-driven architectural and conceptual explorations**, testing the capabilities of **xFigura's** design ecosystem through real projects and weekly challenges.
- Creating **design narratives, visual studies, and parametric iterations** that demonstrate the potential of integrating **AI with BIM and digital fabrication pipelines**.
- Providing **feedback and feature improvement insights** to enhance the xFigura platform for real-world architectural applications.
- Working alongside the **ArchiTAG** and creative community to foster discussions on **AI ethics, generative design, and workflow efficiency**.
- Designing and managing content for community engagement — including conceptual showcases, case studies, and educational posts.
- Exploring cross-platform workflows between **AI render engines, 3D modelling tools, and BIM documentation systems** to streamline architectural ideation and output.
- Continuously experimenting with **AI-assisted massing, façade systems, urban form generation, and material simulation** for architecture and urban design.
- Supporting xFigura's mission to bridge the gap between **creative intelligence and technical innovation** in architecture.

Skills Learned: AI Workflows, BIM Integration, Parametric Design, Computational Thinking, Concept Visualisation, Creative Direction, Revit, Rhino + Grasshopper, AI Agent, Runway Gen-2, Sora, Veo, Visual Storytelling, Project Coordination, Workflow Automation.

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Front Desk Administrator (NHS) | Business Support & Coordination

NHS The Om Surgery Administration Department | Nottingham, United Kingdom

07/2025 – Present

- Managed correspondence and build relationships with key project stakeholders such as architects, engineers, contractors, and suppliers, leading to a streamlined communication process that enhanced project clarity and reduced misunderstandings.
- Proactively managed construction project's, achieving all quality, schedule, budget, and safety targets, and completed project's on average 20% faster than industry standards.
- Informed management about productivity, costs, and quality control, which improved the overall budget compliance by 25% and reduced cost overruns.
- Discussed concepts for drafting, 3D modelling, and visualisation to recognised standards, incorporating **Revit BIM workflows (LOD 300–500), pyRevit automation scripts, and DiRoots plugins** to reduce future conflicts, accelerate documentation, and decrease project delivery durations.
- Prepared comprehensive progress reports, improving client satisfaction by ensuring consistent updates and transparency.

Skills Learned: Administrative Coordination, Digital Records Management, NHS IT Systems, Stakeholder Communication, Workflow Planning, Documentation Accuracy, Multi-department Liaison, Data Entry & Verification, Team Collaboration, Time Management, GDPR Confidentiality & Compliance, Process Improvement, Adaptability in Structured Environments

Co-founder and Design Head

The Sapphire Infrastructures India | Indore, India

10/2021 – 08/2023

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Skills Learned: 3D modelling, Rendering, Analysis, Methodical Thinking, Quality Assurance, BIM Coordination, Revit (with pyRevit, DiRoots, Blocks, BIMLogiq), Construction, Functional Structures (Residential, Commercial, Industrial, Healthcare Units, Housing), Planning Framework, Stakeholder Coordination, Business Strategies, Quotation and Invoicing, RIBA Plan of Work (Stages 2–5).

Civil Designer

JS Infrastructures | Neemach, India

01/2021 – 10/2021

- Prepared engineering drawings of high quality in **AutoCAD and Revit**, reducing revision cycles due to increased initial accuracy and compliance with **building regulation standards**.
- Performed quantity take-offs for civil projects, enhancing material procurement efficiency and reducing waste by **20%**, using **BIM-based estimation workflows and DiRoots TableGen plugin**.
- Collaborated on multi-disciplinary projects such as site development, wetland restoration, drainage, utilities, and transportation—completed **15% more efficiently** than previous projects.
- Coordinated with the supply chain to optimise procurement and delivery schedules, supported by **AI-assisted workflows for resource tracking and project sequencing**.

Skills Learned: Project management, Drafting, Multidisciplinary Collaboration, Estimation, Engineering Design, Drainage Systems, Planning Protocols, Quantity Take-offs, Revit BIM Documentation, BIMLogiq workflows, and RIBA Stage 3 Design Coordination.

Site Engineer

Metastruct Infratech INDIA Pvt. Ltd. | Indore

08/2019 – 09/2020

- Implemented strategies for the efficient allocation, inspection, and use of resources (materials, labour, machinery), supported by **AI-enabled dashboards and BIM scheduling via Revit/Primavera**.
- Ensured all project activities complied with engineering standards, business policies, local regulations, and **building compliance protocols**, resulting in reduced compliance-related issues.
- Developed a comprehensive engineering definition package in **Revit with pyRevit automation for steel detailing**, serving as a blueprint for project execution and reducing project timelines by **18%**.
- Implemented rigorous planning protocols for steel erection, mapping tolerances as tight as **0.01 mm**, enhanced through **Blocks plugin integration for Revit families and fabrication workflows**.

Skills Learned: Surveying, Supervisory and Leadership Skills, Negotiation, Risk Management, Manufacturing–Fabrication and Erection Techniques, Health & Safety Measures, Prioritising Compliance, Engineering Standards, BIM-based Execution Packages, and RIBA Stage 5 Technical Delivery.

Project Engineer

Shivansh Infra and Construction | Indore, India

07/2018 – 08/2019

- Collaborated with architects and designers to create innovative solutions that efficiently used irregular spaces, ensuring harmonious integration of commercial and residential components. Weekly updates coordinated in **AutoCAD and Revit BIM models**, with documentation aligned to **RIBA Stage 3–4 deliverables**.
- Navigated complex zoning laws for mixed-use developments, incorporating **BIM simulations and AI-based compliance checks** to advocate for variances and align designs with regulatory frameworks.
- Conducted damage evaluations, cost estimates, and project proposals under the Public Assistance Program, securing **40% more funding acquisitions** by presenting **BIM-based reports with federated Revit models and DiRoots QuickViews visualizations**.

Skills Learned: Problem-solving, Adaptation to Deadlines and Budgets, Community Integration, Project Design Management, Revit BIM Documentation, Stakeholder Engagement, and Compliance with Regulatory Standards.

Projects

AAKAAR – Shaping the Public Realm: Approach to Mental Wellness in Karystos through Urban Design Synergy with Promenade

Sep 2023 - Sep 2024

- Investigated the redevelopment of Karystos Promenade as a sustainable public space, applying **RIBA Stages 1–3**.
- Redesigned promenade to enhance mental well-being and community engagement, integrating **Revit BIM, Rhino Grasshopper, and AI-assisted urban simulation tools**.
- Incorporated green infrastructure, shaded walkways, and interactive spaces to foster inclusivity and ecological resilience.
- Conducted site analysis using **QGIS, Climate Consultant, and AI predictive pedestrian modelling** to align designs with user needs.
- Delivered high-quality visualisations in **Revit, Lumion, and Rhino**, supported by **DiRoots ProSheets for drawing exports**.

Skills Learned: Sustainable Urban Design, Data Analysis, Visualisation, Stakeholder Collaboration, Value Engineering, AI Urban Analytics, BIM Documentation, and Written/Verbal Communication.



Time and Cost Evaluation of PMAY – U Projects using MCDM Techniques: A Case Study

Jun 2019 - Dec 2021

- Examined time and cost optimisation in PMAY-U construction projects using **BIM-based project monitoring workflows** in Silicon City, Indore.
- Applied Multi-Criteria Decision-Making (MCDM) frameworks alongside **AI-supported Power BI dashboards** to evaluate delays and overruns.
- Comparative analysis of GRA (Grey Relational Analysis), WASPAS (Weighted Aggregated Sum Product Assessment), and MOORA (Multi-Objective Optimization on Ratio Analysis) methods and integrated findings into **Revit-based project schedules linked to Primavera P6**.
- Found WASPAS and MOORA effective in precise decision-making and project management.
- Supported on-budget and on-schedule delivery of urban housing projects under the PMAY-U scheme and optimized decision-making processes aligned with **RIBA Stage 6 post-construction evaluation**

Skills Learned: Decision making, Data Analysis, Time and Cost Management, AI & BIM Analytics, Qualitative Evaluation., Software potential.

Planning, Designing & Scheduling of Magarkheda Village in Rural-Urban Fringe of Indore Region as Green Village

Dec 2017 - Jul 2018

- Proposed Magarkheda Village as a **Green Village model**, incorporating **BIM-based planning workflows**.
- Advocated for sustainable practices and modern technology through **AI-supported environmental simulations and Revit visualisation**.
- Enhanced infrastructure with eco-friendly solutions like rainwater harvesting and solar power.
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- Used detailed surveys integrated into **Revit CDE environments** for planning and documentation.
- Applied advanced scheduling in **Primavera P6 linked with Revit 4D models**.

Skills Learned: SuDS Strategies, Building Codes Analysis, Environmental Engineering Concepts, BIM for Sustainable Planning, Team Collaboration, RIBA Stages 1–2 and Design and Professional Development.

Training

Project Management Trainee, Dee Vee Projects Ltd.

Feb 2019 - Apr 2019

Completed training for multistorey building construction in Pradhan Mantri Awas Yojana - Urban (PMAY-U) including;

- Site survey, Material quality control | Understanding machining uses | Lab testing for construction material | Project scheduling by Primavera P6/ MS Project | Manage daily reports and check bills of quantity (BOQ)

Industrial Trainee, Prism Cement Ltd.

Jul 2017 - Aug 2017

- Fieldwork documentation | Briefing drawings of the cement factory plant | Understanding safety and security measures | Process of production department at RMC Plant | Design Coordination

References:

- **Jason Taylor** - Senior Lecturer & Architectural Digital Design, AI & DELTA Lead (jason.taylor@mmu.ac.uk)
- **Dr Chathu Jayakody** – BSc(Hons), MSc, PGCert, PhD, FHEA, Senior Lecturer in Built Environment and Apprenticeships (chathu.jayakody@bcu.ac.uk)
- **Ajai Paul** – Senior Urban Designer, Ridge and Partners LLP (ajaipaul@ridge.co.uk)

