

# AMRUT MODANI

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## WORK EXPERIENCE

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### A. Space Matrix, Bangalore, India. (6 months)

August 2024 - Present

Senior Lead, Virtual Design & Construction

- Heading transition from AutoCAD based design to BIM based design and project management.
- Develop, manage, and implement BIM/VDC standards with a focus on quality control, workflow/design automation, quantity extraction, clash detection, and as-built BIM models.

### B. WeWork India, Bangalore, India. (3 years, 2 months)

July 2021 - August 2024

Senior Lead, VDC

- Maintaining BIM standards : **Revit template** with standard details and **family library**, **clash detection** standards, laser scanning and project/BIM execution plan.
- Create technology evaluations and future technology adoption that align with corporate goals. Managing **Procore** for CDE & PM platform. Onboarding and training of internal and external stakeholder on Procore. Previously used ACC Build for construction management platform.
- Learned **Revit API** (C#) and **Dynamo** (Python) to develop automation tools for studio team. Design automation (desk layout, lighting layout, power & data), QTO and QC tools for quality Revit models.
- These tools **reduce 80%** of the time required for respective tasks. Time saving is approx **1000+** working hours of architects and designers for consolidated 20+ million sqft of fit-out projects.
- Received 'Moonshot Idea', 'Winning Together' annual awards for consistently identifying & delivering new initiatives for internal/external teams and have a positive impact on overall business.
- We have successfully achieved **100% clash free pre-construction** designs using BIM workflows.
- So far we quantify around **80% of the BOQ** line items directly from Revit which increases accuracy and the variation from site is within 3% error.

### C. 3DPrime Designers Pvt Ltd, Pune, India. (3 years)

July 2018 - June 2021

BIM Project Coordinator

- Implemented BIM workflow for high-rise residential projects from Godrej Properties Limited. Set up and executed the BIM 360 docs for design consultants and client operation team.
- Performed clash detection in Navisworks and maintained track of clash resolutions and RFIs. Organized periodic BIM coordination meetings for model & clash reviews and delivered coordinated LOD 300/350 BIM models for 7 towers of G + 45 (approx 2.4 million sq. ft.).
- Developed a training module and tutored recruits and internal BIM team on Revit & Navisworks.
- Prefabricated modular construction of residential houses at TopHat, UK. As an offshore Detail Design team, we delivered: 100+ parametric families, LOD 450 MEP, standard details, and shop drawings.

## EDUCATION

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### Birla Institute of Technology & Science, Pilani, India

August 2013 - June 2018

Dual Degree in BE (Hons) Mechanical and MSc (Hons) Physics

- Chief Coordinator for "Kala - The Fine Arts Club".
- Completed thesis at National Aerospace Laboratory with Publication in Journal of Fluids and Structures.

## SKILLS & INTERESTS

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- In-depth : Building Information Modeling; Revit, Revit API (C#); Navisworks Clash Detection; BIM 360 & Autodesk Construction Cloud (ACC) - Build, Design Collaboration, Docs, Plangrid, Procore
- Experience with AutoCAD, Lumion, Enscape, COBie, Dynamo, Python, Photoshop, Reality capture, 4D & 5D Simulations, .NET Framework, Airtable web API
- Interests: Data science, ML/AI for design automation, Autodesk Platform Services/Forge APIs, Generative Design, Fine Arts, Running, Yoga, Reddit, GitHub: Procrastinating to set this up professionally.