

Devendra Kumar

Licensed Architect with the Council of Architecture, India

Education

IIT Roorkee, India Master of Architecture Major in Advanced Building Technology, BIM, and Computational Design. Postgraduate thesis: Simulation-driven design of Kinetic Facade.	2023 - 2025
M.B.M. University, Jodhpur Bachelor of Architecture Undergraduate thesis: Museum of Modern Art, Kolkata.	2016 - 2021

Work Experience

TTZ Group, Dubai Architect Revit, BIM coordination, and architectural project delivery.	Oct 2025 - Present
BEL, IIT Roorkee Research Intern - Created parametric kinetic-facade models using Grasshopper, Rhino 3D, and Dynamo. - Developed a kinetic facade prototype using 3D printing and automation techniques.	Jun 2024 - Aug 2024
MOFA Studios, New Delhi Junior Architect - Managed projects from concept to completion, including design, construction drawings, and client coordination. - Developed detailed BIM models in Revit to improve workflow efficiency and accuracy. - Collaborated with consultants, contractors, and regulatory agencies to meet project goals. - Conducted site observations and maintained project documentation. - Used Rhino 3D and Grasshopper for parametric design and complex fabrication drawings. - Created precise 3D-printed models to improve visualization.	Mar 2022 - Jun 2023
Play Architecture, Bangalore Architectural Intern - Developed advanced 3D models using Rhino 3D and Grasshopper. - Created physical models and collaborated with the principal architect and design team. - Produced technical and contract documentation for construction projects.	Jun 2019 - Dec 2019
NOAF Interiors, Dubai Interior Design Intern - Prepared detailed joinery drawings and construction documents. - Developed mood boards showcasing color schemes, materials, and textures.	Jun 2018 - Aug 2018

Skills

BIM / CAD Rhino 3D, AutoCAD, Revit, SketchUp	Programming & Simulation Grasshopper 3D, Ladybug Tools, DIALux, ClimateStudio, Dynamo, DesignBuilder
AI & Automation Comfy UI, AI-assisted BIM Automation, Generative AI, Revit API, GitHub	Digital Fabrication & Advanced Systems Computational fabrication, Geometry Rationalization, Robotic workflow, 3D printing
Design Communication Design Narrative Development, Concept Communication, Diagram Development, Motion Graphics, Interactive Media	Rendering Lumion, Enscape, D5 Render
Presentation Adobe InDesign, Adobe Photoshop, Filmora	

Awards & Achievements

CODIN.Compete Mather Square Secured third position.	2024
Solar Decathlon India Multi-Family Housing Finalist in the Multi-Family Housing category.	2024 - 2025

Workshops & Courses

NIT Patna BIM Tools, Techniques and Practices Course covering Revit Architecture, structures, Navisworks, and building performance analysis.	2025
IIT Roorkee Building Sciences and Simulation Tools Workshop on ClimateStudio and Ladybug Tools for environmental analysis and simulation.	2024
GIS Workshop Geographic Information Systems Workshop focused on learning and applying QGIS.	
Solar Decathlon India Net-Zero Energy and Water Building Completed self-learning modules on net-zero energy and water buildings.	2024
Designuru 2.0 Timbrel Vaulting Hands-on workshop on techniques for constructing timbrel vaults.	2019

Projects

IIT Roorkee, India An Approach to Net-Zero Energy Building - Developed a net-zero energy strategy for an existing building. - Conducted an energy audit to analyze consumption patterns. - Created detailed energy models using Rhino 3D and Ladybug Tools to simulate building performance and optimize the envelope.	2024
Prototype Development Kinetic Facade Prototype Developed a working prototype based on RMIT University kinetic facade system using 3D printing, Arduino integration, and environmental sensors.	