



Gowtham Jeyabalan

Architectural /
Computational
Designer

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Design

Maya	Intermediate
Rhino	Advanced
Grasshopper	Advanced
Revit	Advanced
Rhino Inside	Intermediate
Dynamo	Novice
Autocad	Advanced
Photoshop	Advanced
Indesign	Advanced
Illustrator	Advanced

Programming

Python	Intermediate
C#	Intermediate
Rhino Common	Intermediate
Revit API	Novice

Profile

I am a Computational Designer with strong expertise in Rhino, Grasshopper, Revit, Maya and Programming, developing parametric workflows to automate facade design processes and improve modelling efficiency. I specialise in translating complex architectural intent into rationalised Geometry through computational design and optimisation techniques. Experienced in Python and C# scripting and BIM integration (Rhino Inside Revit), I focus on enhancing design accuracy, streamlining workflows, and supporting data-driven decision-making developing custom workflow development.

Work Experience

FHD, Hyderabad, India (Architectural/Computational Designer) 2020 - 2023

- Led Architectural Design and Coordination for a 55-storey high-rise Residential project, improving client approval rates through parametric facade design and enhanced design efficiency over multiple iterations iterations.
- Produced Detailed 3D Models using Rhino and Grasshopper for several residences, clubhouses, and high-rise apartments, supporting design development and documentation
- Built Environmental Performance analysis workflows for optimising affordable housing and net-zero communities focusing on shading, daylight and thermal efficiency.
- Contributed to six large-scale net-zero eco retirement communities through Masterplanning, enhancing environmental performance, and sustainable approaches.
- Researched on automating repetitive design tasks using Grasshopper.
- Worked on over fifteen large-scale Affordable housing projects focusing on spatial and facade optimisation through concept and schematic design stages.

RVDA, Chennai, India (Architectural Assistant) 2019

- Designed and delivered Interior Design Packages for five small-scale residences, including layouts, joinery details, and furniture design.
- Prepared spatial and electrical layout drawings, improving coordination for a mid-sized hospital project.

CARE-PEP, Trichy, India (Research Assistant) 2018 - 2019

- Worked as the research assistant for CARE-People, Environment and Place(a research initiative at CARE school of Architecture)
- Designed an affordable housing alternative proposal for a government project as part of a 2 person team focusing on community needs and spatial efficiency
- Analysed local building laws and contributed ten regulatory suggestions to the advisory council

Mozaic Architecture, Goa, India (Architectural Intern) 2016 - 2017

- Assisted in the conceptual Modelling using Rhino and detailed design stage for five hospitality projects and renovations of 2 residences
- Prepared schematic design presentations, 3D models, and layout drawings using Revit, accelerating the design iteration timelines for Prefabricated Housing Projects

Education

Cardiff University
(MSc Computational Methods in Architecture - Distinction) 2023 - 2024

- Specialised in parametric and performance-driven design, focused on form-finding, rationalisation, and digital fabrication using advanced digital tools like generative design and performance analysis utilising Rhino, Grasshopper and Programming
- Researched and utilised Machine Learning to automate room classification in BIM models using Python (PyTorch Geometric).

CARE School of Architecture
(Bachelor of Architecture - First Class) 2013 - 2018

- Studied Design Principles through independent, experimental, and rigorous approach
- Learnt about the interaction between technology, design, society, and the built environment
- Developed analytical and creative skills and spatial aptitude through diverse design problems