

## Ar. Pooja Ghorpade

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### Objective

Specializing in digital design derivation, concept development, and construction documentation, I am passionate about creating responsible, functional, sustainable designs. With a strong background in algorithmic and parametric design, coupled with modern technology, I excel in exploring creative designs and developing precise execution strategies.

### Education

- Masters in Digital Architecture from Dr. Bhanuben Nanavati College of architecture, SPPU Pune University, 2016
- Bachelor Degree in Architecture from Smt. Manoramabai Mundle college of architecture, RTMNU Nagpur University, 2013

### Professional Experience

#### 1. Junior Architect @ ADSYS Architects, Nagpur

Ar. Raviraj Sarwate & Ar. Parag Sarwate

Duration: 2013-2014

Collaborated on architectural projects, gaining hands-on experience in design and planning.

#### 2. Architect @ Lunkad Properties, Pune

Duration: June 2016 - May 2018

Played a key role in designing and executing architectural projects, ensuring high-quality standards and client satisfaction.

#### 3. Adjunct Assistant Professor @ VNIT, Nagpur

Duration: Jan 2020 - July 2020

Provided valuable insights and education to students, contributing to the academic environment.

#### 4. Assistant Professor @ BNCA, Pune

Duration: Dec 2022 - Present

Engaging in teaching and mentoring, fostering the development of future architects.

#### 5. Chef Parametric Design Consultant @ SFT lab, Bangalore

Duration: May 2017 - Present

For the past seven years I have been providing digital assistance and consultation on various high-profile projects, including installations at Google Headquarters in Bangalore, Avighna Crown in Mumbai, Intel Headquarters in Bangalore, and Rio Tinto Melbourne. I also consulted on design solutions and fabrication assistance on various parametric facade such as ABC Emporio in Cochin, Bimal Saree Centre in Kolkata.

Ar. Pooja Ghorpade

B.Arch, M.Arch (Digital Architecture)

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BNCA, Pune, India

## Key Skills

- Digital Design Derivation
- Algorithmic and Parametric Design Approach
- Integrating technology in Sustainable Design development

## Essential digital competencies

### • Digital Design Tools:

Proficient in CAD (Computer-Aided Design) software, such as AutoCAD and Rhino.

### • Parametric Design:

Experience in parametric design tools such as Grasshopper for Rhino, GH plugins, karamba.

### • 3D Modeling and Visualization:

Proficient in rendering and visualization software such as V-Ray or Lumion

### • Digital Simulation:

Familiarity with simulation tools for environmental analysis, daylighting studies, and energy performance assessments.

### • Digital Fabrication:

Knowledge of tools like CNC machines and 3D printers, coupled with software like Rhino CAD/CAM or Fusion 360, for digital fabrication and prototyping

### • Virtual Reality (VR) and Augmented Reality (AR):

Understanding and application of VR and AR technologies in architectural design, using tools like Unity or Unreal Engine

### • Generative AI tools:

Use of AI in architecture and education, executing AI workflow in architecture through midjourney, Ai playground, Gamma AI, Google Collab, etc.

## Achievements

Successfully contributed to high-profile projects, including installations at Google Headquarters and Intel HQ in Bangalore, and various other projects in Mumbai, Cochin, Kolkata, Dubai, Melbourne.

Acknowledged for expertise in digital design derivation and sustainable design choices.

## Research interest

Generative AI, Algorithmic design derivation, synthetic vernacular architecture, schematic planning, AI in participatory Urban Planning, Applied Parametric design, optimized built performances and stimulation, performance optimization, Ai powered sustainability.

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