

Curriculum Vitae

Swapnil S Gawande

Managing Director // Principal Architect // Computational Design & Digital Architecture Expert

Studio_DRA[AFT] Design & Make Pvt. Ltd.,

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BRIEF INTRODUCTION

Architect Swapnil Gawande comes from a family of Civil Engineers and Architects and hence the fundamentals of 'Construction', 'Design' & 'Technology' were imparted on his psyche since early childhood. His inadvertent inclination towards the creative aspect of the domain encouraged him to pursue a bachelor's degree in Architecture from University of Pune in 2009. Further to delve deeper into the aspects of the dominion, comprehension and implementation of technology, and experiment with contemporary and futuristic design methods and strategies, he went on to pursue his Masters in Emergent Technologies & Design at Architectural Association London.

He now specializes in generative design methodologies involving computational techniques and advance material sciences and technologies, investigating the potential they hold within the domain of architecture and urbanism. His major interests lie in exploring looped data transitions between digital, analogue and simulative experimentations of complex architectural geometries and realise them through advanced digital fabrication techniques. These initiatives are undertaken in his design collective named STUDIO_DRA[AFT] which rigorously implements a Research Based Design Methodology as an effective strategy to provide novel solutions at different scales.

STUDIO_DRA[AFT] has won several accolades for their radically different designs & fabrication techniques, especially within the fields of Highway Infrastructures, wherein they have designed and executed (turn-key) a good quantum of innovative & geometrically complex Toll Plazas, Canopies, steel structures, Urban Arterfacts and allied facilities. For instance, STUDIO_DRA[AFT] is the proud Architect of the Grand & Iconic Toll Plaza on Eastern Peripheral Expressway of Delhi which was inaugurated at the hands of Hon. Prime Minister Mr. Narendra Modi in 2018.

With keen interest in academics and an intention to bridge the gap between industry and academia, Swapnil Gawande has been associated with the prestigious MKSSS's Dr. Bhanubai Nanavati College of Architecture's (BNCA) Department of Digital Architecture of Savitribai Phule Pune University (formerly University of Pune) as an Assistant Professor since 2012. Here, he has been instrumental in re-structuring the course syllabus and content for M.Arch (Digital Architecture) Programme and setting up the only Digital Fabrication Lab (DFL) exclusively well-equipped for Architecture students and professionals in the country. He has also been key to successfully materialize the conduction and also co-tutored International Workshops like Architectural Association Visiting Schools (AAVS) London and a Global Summer School (GSS) with the Institute of Advanced Architecture (IAAC) Barcelona in collaboration with BNCA on its Campus in Pune. He has also been the lead Architect to parametrically design & make the iconic Maharshi Anna Karve Memorial Project on Karve Road, Pune.

Swapnil Gawande is also actively involved in conducting lectures, seminars and collaborative workshops on 'Parametric Architecture & Fabrication of Geometrically Complex Structures' and has also been invited as an eminent Speaker to showcase his works at several national and international institutes and platforms. As an avid reader and writer, he frequently contributes to numerous magazines and journals within the domain of Architecture, Engineering, Design & Construction.

EDUCATION

_2012

MSc_Emergent Technologies & Design (*Specialization in Digital Architecture*)
(Awarded Grade "A")

ARCHITECTURAL ASSOCIATION School of Architecture, LONDON

_2009

B. Arch

(Awarded First Class)

N.D.M.V.P. Samaj's College of Architecture, Nashik

UNIVERSITY of PUNE _ COA Registration Number: CA/2010/47485

PROFESSIONAL EXPERIENCE

_2005 to present

STUDIO DRAAFT DESIGN & MAKE Private Limited, Pune.

(Managing Director, Principal Architect,

Computational Design / Digital Architecture Expert)

- *International Airports
- *Highway Infrastructure Projects
- *Long-span Steel Structures with Complex Geometries
- *Parametric Design & Digital Fabrication Projects
- *Housing & Commercial
- *Urban Infrastructure Projects
- *Project Management
- *Interiors
- *Landscape
- *Structural Design
- *Fabrication & Execution

_June 2008 to November 2008

MORPHOGENESIS Architecture Studio, New Delhi

(Intern Architect)

- *I.T. / Commercial Projects
- *Museum
- *Hotel
- *Mass Housing
- *Villas & Residences

_2012 to 2019

PRUDENCE Infrastructures, Pune

(Founding Partner)

- *Highway Infrastructure Projects
- *Housing & Commercial

*Project Management
*Fabrication & Execution

_May 2009 onwards

Allied Freelance Works

*Set Design
*Visual DJing
*Professional Photography

_December 2012 to present

**Asst. Professor at Dr. Bhanuben Nanavati College of Architecture (BNCA), Pune
For M.Arch (Digital Architecture)**

*Studio Master for Digital Design Studio of M. Arch (Digital Architecture) Studio 1 & 3.

A]. Studio Titles:

_Studio ParaMorphace
_Sheet Generatives-111
_FaBriKate-112

B]. Subjects:

_Advanced Material Sciences & Digital Fabrication I, II & III
_Parametric Softwares
_Parametric Urban Design
_Thesis Co-ordinator for 4th Semester M.Arch (Digital Architecture)

SELECT AWARDS

_June 2002 to 2009

**Attended and won several prizes in the Zonal and Annual Conventions conducted by
National Association for Students of Architecture (NASA), INDIA**

_March 2012

EVOLO 2012 Skyscraper Design Competition

(Honourable Mention) [Team of 3]

*Published in EVOLO SKYSCRAPERS - Limited Edition Book

_March 2016

**Won “YOUNG DESIGNERS’ of INDIA” Competition 2016 in the Category “Architecture -
Special Mention” hosted by Indian Architect & Builder (IA & B) Magazine at 361° Design
Conference held in Mumbai.**

(This project was also published in the INDIAN ARCHITECT & BUILDERS MAGAZINE in
February 2016 Edition)

_December 2016

**2nd Runner-up for “Best Architecture Project - Public Building / Institutional Building /
Recreational Building” Category at Berger Architecture Ideas 2.0 Competition hosted
by Festival of Architecture and Interior Design (FOAID) Mumbai.**

(This project was also earlier published in the Coffee Table Book published by FOAID in
September 2016)

IMPORTANT PUBLICATIONS

_February 2016

Toll Plaza Projects on Shreenathji Udaipur Tollways Private Limited (SUTPL) in Indian Architect & Builder

_March 2017

Research Paper on EMERGENCE OF AESTHETIC FROM SHEET MATERIALS USING COMPUTATIONAL TOOLS AND INNOVATIVE DIGITAL FABRICATION TECHNIQUES for ARCHDESIGN 17 Conference organized by DAKAM (Eastern Mediterranean Academic Research Center) in Istanbul, Turkey.

_May 2018

Written a Chapter on “ICONIC TOLL PLAZA”, designed by Studio_DRA[AFT] on Eastern Peripheral Expressway, in the Book - “Expressway in 500 days” Published by Dr. B. S. Singla, Chief General Manager (Expressways) in National Highways Authority of India (NHAI).

WORKSHOPS & SYMPOSIUMS CONDUCTED / MENTORED

_September 2013

One of the six Studio Mentors invited from six major cities of India for the prestigious “VERTICAL STUDIO” initiative, conducted by IDEA College of Architecture Nashik, aimed at proposing solutions for an “Iconic Image for Nashik City”.

(Solutions, Opinions & Interviews widely covered by print media, websites and various virtual social networking platforms)

_3rd & 4th April 2014

Conducted a Workshop on “TENSILE STRUCTURES” at Vidyavardhan’s IDEA College of Architecture, Nashik.

_2nd to 6th February 2015

Mentored an International Workshop on “Scripting Culture for Parametric Urban Environments (Python for rhino)” for Ventures in Digital Architecture (VeDA)_India Conference at Department of Digital Architecture of BNCA at Dr. B.N. College of Architecture Campus, Pune.

_8th February 2015

Invited as a Speaker for Ventures in Digital Architecture (VeDA)_India Conference at Department of Digital Architecture of BNCA at Dr. B.N. College of Architecture Campus, Pune.

_25th to 28th February 2015

Conducted a Workshop on “TENSILE STRUCTURES” for Vidyavardhan’s IDEA College of Architecture, Nashik and Maharashtra Association of Schools of Architecture (MASA) at Vidyavardhan’s IDEA College of Architecture, Nashik.

_17th to 20th October 2015

Conducted a Workshop on “SPATIAL STRUCTURES” at Vidyavardhan’s IDEA College of Architecture, Nashik.

_4th & 5th March 2016

Tutored an International Workshop on “EMERGENCY SHELTER DESIGN” Phase - 1 under UNAI (UNITED NATIONS ACADEMIC IMPACT) Initiative, in collaboration with Department of Digital Architecture BNCA Pune, DEMOLA-Budapest and Green Contributors Canada at Dr. B.N. College of Architecture Campus, Pune.

_14th to 18th June 2016

Tutored an International Workshop on “HOLISTIC VILLAGES - A Tangible Dream” under UNAI (UNITED NATIONS ACADEMIC IMPACT) Initiative, in collaboration with Department of Digital Architecture BNCA Pune and BUS Architektur Vienna and Austrian Cultural Forum at Dr. B.N. College of Architecture Campus, Pune.

_23rd to 31st July 2016

Tutored the Architectural Association Visiting School (AAVS) - BioMorph 2016, in collaboration with the ARCHITECTURAL ASSOCIATION (AA) London and Department of Digital Architecture BNCA Pune at Dr. B.N. College of Architecture Campus, Pune.

_15th to 18th August 2016

Mentored an International Workshop on “EMERGENCY SHELTER DESIGN” Phase - 2 under UNAI (UNITED NATIONS ACADEMIC IMPACT) Initiative, in collaboration with Department of Digital Architecture BNCA Pune, DEMOLA-Budapest and Green Contributors Canada at DEMOLA - Budapest, BME Campus, Hungary.

_6th to 9th October 2016

Conducted a Workshop on “SPATIAL STRUCTURES” at Vidyavardhan’s IDEA College of Architecture, Nashik.

_16th to 18th February 2017

Tutored an International Workshop on “EMERGENCY SHELTER DESIGN” Phase - 3 under UNAI (UNITED NATIONS ACADEMIC IMPACT) Initiative, in collaboration with Department of Digital Architecture BNCA Pune, DEMOLA-Budapest and Green Contributors Canada at Dr. B.N. College of Architecture Campus, Pune.

_31st October 2018

Invited as a Speaker for STEEL DAY 2018 at the STEEL CONSTRUCTION SUMMIT - MUMBAI organized by MX Business Media and Steel Structures & Metal Buildings Magazine to talk on “Paradigm Shifts in Architectural Morphologies of Highway Infrastructures”

_20th June 2020

Invited as a Speaker for SCS Technical Webinar Series - “YOUNG DYNAMIC DESIGNERS - Exploring Steel” conducted by the STEEL CONSTRUCTION SUMMIT organized by MX Business Media and Steel Structures & Metal Buildings Magazine

EDUCATIONAL TOOLS

- Architectural Design & Theory
- Concept Development

- Parametric Design
- Computational Strategies
- Algorithmic Architecture
- Biomimetics
- Emergent Architecture
- Digital Fabrication
- Structural and Environmental Analysis
- Analytical Diagramming & Graphics
- Project Planning & Execution
- Robotics

COMPUTATIONAL SKILLS

2D & 3D Modelling:

- AutoCad
- 3D Studio Max
- Rhinoceros 3D
- Maya
- Houdini
- Blender
- Unreal Engine

Parametric Tools:

- Grasshopper & Allied Geometrical Rationalization & Optimization Plug-ins
- Kangaroo & Allied Physics Engines
- Python Scripting
- *KUKA-Prc* for Robotic Architecture

Structural and Environmental Analysis Tools:

- Strand 7
- Ecotect
- Ansys
- Millipede
- Karamba
- GECO

Graphics & Animation Tools:

- Photoshop
- Illustrator
- Indesign
- Premiere
- Corel Draw
- Advanced AI Tools

ALLIED INTERESTS

- Sculptures & Photography
- Technology
- Art & Literature
- Adventure Sports & Gastronomy