Deva Prasad.A

A-4, Shriniwas nagar Society,
Mahatma Society,
Kothrud, Pune
Maharastra,
India.

Mobile: +91 955 224 97 10
Email: aurodev@gmail.com ,
deva.prasad@bnca.ac.in,

I am an architect and computational designer. I joined BNCA in 2013 and have been teaching parametric design with a deeper interest in advanced fabrication and prototyping. I thoroughly enjoy the process of materializing the design through digital fabrication and manufacturing.

My area of interest lies in exploring digital to physical workflows that circulate openly between computation, simulation and physical prototyping, using emerging digital design and fabrication tools. Hence I took initiative in developing the Fablab in our institute.

2013 -2016

I have investigated algorithmic techniques in relation to computational geometries, material computation and interactive design and their applications in prototypical assemblies in architecture. I built hologram and conducted small experiments with virtual reality, augmented reality using leap motion technology. I also explored reverse engineering through photogrammetry and constructed models using digital fabrication process.

2016 – 2021

I believe in experimentation and learning by doing. All these self explorations developed my ability to simplify decode and recreate the complex systems. With this background, I was motivated to develop a set of custom tools for robotic arm such as –

1. Hot wire cutter,
2. Pneumatic pick and place tool,
3. Pneumatic milling,
4. Single point incremental forming tool,
5. Clay extruder,
6. Clay shaping tool,
7. Weaving tool,
8. Pellet extruder,
9. Robotic rod bending.

2021 onwards

Currently I am exploring the possibilities of immersive learning tools in architecture education. Recently I have taken an initiative to set up an AR (Augmented reality) , VR (virtual reality) and MR (mixed reality) lab at BNCA. Mixed reality allows learners to experience lifelike environments and scenarios that are high-risk or difficult to simulate. Virtual reality (VR) is a computer-generated 3D representation of real-world environments, while augmented reality (AR) is a live view of a real-world environment augmented by computer generated sensory input.

With all the resources and in all my capacity I have equipped BNCA FabLab to match the best schools in the world . I wish to take these advanced fabrication and immersive design processes to every faculty and student in our institute. I am humbled by the faith, trust and support by Dr. Kashyap and my co faculty members.

ACADEMIC QUALIFICATION

Course	University Board	Institute	Year of Passing	Percentage/CGPA
M.Arch Digital Architecture	**Anna University**	**School of Architecture and Planning, Chennai**	**2011**	**7.77 CGPA**
B.Arch	**Visvesvaraya Technological University**	**Siddaganga Institute of Technology, Tumakuru**	**2007**	**52.32 %**

AREA OF INTEREST

- Computational design
- Advanced 3D modelling
- Form Finding
- Digital Fabrication
- Robotic Fabrication
- **Robotic Tooling for prototyping**
- **Embedded Systems**
- **Augmented & Mixed Reality**
- **Photogrammetry**
- **Reverse Engineering**

WORK AND RESEARCH

2012-Present

Currently investigating algorithmic techniques in relation to computational geometry, material computation and interactive design with vested interest in applying these techniques to prototypical assemblies as well as architecture.

My areas of interest lies in exploring digital to physical workflows that circulate openly between computation, simulation and physical prototyping utilizing emerging digital design tools.

ACADEMIC ACHIEVEMENTS

2011

Thesis research paper titled ***Performance Oriented patterns*** *selected for CAADRIA 2011, Australia.*

Awarded the ***'Best Cumulative Performance in Design studio M.arch (Digital)*** by School of Architecture and Planning , Anna University, Chennai.

TEACHING EXPERIENCE

Oct 2016- Present

Associate Professor, M.Arch, Department Of Digital Architecture. Dr. B N College Of Architecture, Pune, India.

Jan 2012 - 2016

Assistant Professor, M.Arch Department of Digital Architecture. Dr. B N College Of Architecture, Pune, India.

WORKSHOPS CONDUCTED/MENTORED

July 2021

Conducted a 5 days Rhino 3D workshop for BNCA students (all years) under skill development program.

July 2019

Tutored the, Global Summer School India 2019 theme Robots in Construction. (http://globalschool.iaac.net/gss19_india/)

Oct 2019

Conducted 3 day workshop at Zonal NASA Convention at Marian College of Architecture and Planning on *Parametric and Kinetic Architecture.*

Sep 2019

Conducted 2 day workshop at Zonal NASA Convention at Jawaharlal Nehru Engineering College, Aurangabad on *Rhino 3D modelling.*

July 2017 Tutored an International ***"Workshop_AAVS BioMorph_India "*** 2017, in collaboration with BNCA and Architecture Association London.

April 2017 conducted a 2 day workshop on ***"Parametric Tower"*** for architecture Students at M S R I T, Bangalore, India.

Feb 2017 Tutored an International Workshop ***"Emergency Shelter Design Workshop Stage-III"*** in collaboration with BNCA, Demola-Budapest and Green Contributors inc.

July 2016 Tutored an International ***"Workshop_AAVS BioMorph_India"*** 2016, in collaboration with BNCA and Architecture Association London.

July 2016 Tutored an International workshop***_"Our City Our River",*** in collaboration with BNCA, National University Singapore, INTACH.

July 2016 Conducted a workshop on ***" Parametric Design Thinking for Tower Typology"*** for 3rd year Under graduate students at B N C A, Pune, India.

June 2016 Tutored an International Workshop ***"Holistic villages- A Tangible dream"***, in collabration with BNCA and BUS Architektur Vienna(Austrian Cultural Forum).

Mar 2016 Tutored an International Workshop ***"Emergency Shelter Design Workshop Stage-I"*** in collaboration with BNCA and Demola-Budapest and Green Contributors inc.

Mar 2016 Conducted a workshop on ***"Parametric Furniture"*** 2 day for students and faculty at Goa College Of Architecture, Goa, India.

Feb 2015	Participated and organised the workshop on Digital Architecture titled ***" Ventures in Digital Architecture_INDIA"***.
Nov 2015	Conducted a 3 day workshop on ***"Parametric Design"*** for students and professionals at renowned Architect Sanjay Mohe's office *MINDSPACE*, Bangalore.

TRAINING AND WORKSHOP UNDERGONE

Sep 2021	**Acadia 2021 workshop - *Knitted Growth (Registered)***
Aug 2021	**QBRICK LAB- *Strip Morphologies 2 .0***
July 2021	**Design Morphine- *Morphy Towers V1.0***
Jun 2021	**Participated in online teachers training program conducted by Council of Architecture titled *'Institutional Collaboration".***
June 2021	**QBRICK LAB- *Strip Morphologies 1.0***
June 2021	**Design Morphine- *Syntactic Elements V1.0***
May 2020	**MEAL- LIVE ACADEMY- *Blender Class- Beginner.***
July 2020	**MEAL- LIVE ACADEMY- *Blender Class- Intermediate.***
Jan 2019	Participated in 2 day workshop on "Faculty Development Program on Digital Pedagogy" organised by Teaching Learning Centre, Savitribai Phule Pune, University.
Feb 2017	Attended "361 degree" Design conference.
Jan 2017	Participated in teachers training program conducted by Council Of Architecture titled *"**Computing in Architectural Education,***

Practice and Research" at McGan's Ooty School of Architecture, Kotagiri, Tamil Nadu,India.

Nov 2015 Participated in the International program **"BARCELONA STEP by STEP",** organised by the *Escola Tecnica Superior d'Arquitectura de Barcelona, ETSAB.*

ACADEMIC AND ADMINISTRATIVE EXPERIENCE

2012-Present Actively involved in the up gradation and development of Digital Fabrication Lab (DFL) at BNCA,Pune, India.

Feb 2015 Active Part of an organising team of national level symposium titled **"Venture in Digital Architecture_INDIA".**

PUBLICATIONS

2017 **Deva prasad**, Sonia Bhamra, Mohammad Taha."*Digital Investigation In Augmenting Materiality to Suit Manipulations of an embedded system powered kinetic installation"*. ARCHDESIGN '17 Conference organized by DAKAM June 16,2017*(Refer Page no-50 Archdesign Proceedings book 2017, Dakam*

2017 Paper titled *" Digital Investigation In Augmenting Materiality to Suit Manipulations of an embedded system powered kinetic installation*" has been accepted for CAADRIA 2017, China. (Yet to published in the dedicated CAADRIA 2017 Short Paper|Posters| Workshop proceedings.

PROFESSIONAL EXPERIENCE

Dec 2011-Feb 2013 **Group Phi, architects and designers, Pune.**
Job profile: Architect.

Aug 2011-Oct 2011 **Mozaic, Goa.**
Job profile: Architect.
Partially worked on private residences, apartments and resorts.

Nov 2008-Aug 2009 **PR Design Group, architects and space planners, Bangalore.**
Job profile: Architect.
The projects handled included schools, spa clinic and private residences.

Oct 2007-Oct 2008 **Auroville Design Consultants, Auroville, Puducherry.**
Job profile: Junior architect
The type of projects included schools, resorts, private residences and housing scheme.

July 2006- Oct 2006 **V B T Consortium, Bangalore**
Job profile: junior Architect

Feb 2006- June2006 **Ananthram and Associates, Bangalore**
Job profile: Trainee

COMPUTATION SKILLS

2D & 3D Modelling
Autocad 2D
Rhinoceros
Blender
Sketchup
Fusion 360(Basic/learning)

Parametric tools
Grasshopper for Rhino
Various Add-ons for grasshopper

Scripting	Processing (Basic/learning) Python for Rhino and grasshopper(Basic/learning)
Graphics	Photoshop , Indesign, Illustrator, After Effects.

- Certified course 3D Studio max, adobe Photoshop from Arena Multimedia
- Certified course in web animation from ANTS(Animation Training School).

PERSONAL PROFILE

Date of Birth	: 21-08-1983
Gender	**:** Male
Marital Status	**:** Married
Languages Known	**:** English, Kannada, Telugu, Tamil, Hindi, Marati.
Permanent Address	**:** A 4, Shriniwas Nagar Society Lane No-17, Mahatma Society, Kothrud, Pune-411038

Declaration

Here by, I declare that all the details furnished here are true to the best of my knowledge.

(Deva Prasad.A)