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CURRENT POSITIONS

Partner

Kamath Design Studio

301 N-19 Green Park Extension

New Delhi – 110016

EDUCATION

- | | | |
|-------------------|--|--|
| 2007 – 09. | Masters of Science in Architecture Studies (Design Computation) | Massachusetts Institute of Technology
Cambridge, MA, USA. |
| 2001 – 06. | Bachelors of Architecture | Sushant School of Art and Architecture
Gurgaon, Haryana, India. |
| 2000 – 01. | Advanced Diploma in Photography | Triveni Kala Sangam
New Delhi, India. |

Awards and Honours

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| 2008 – 09. | Merit Based Full Tuition Award, MIT Department of Architecture. | |
| 2005 – 06. | Bharat Mansinh Rana Gold Medal for Excellence in Thesis Design, Sushant School of Art and Architecture | |
| 2005 – 06. | General Proficiency First Prize for the Fifth Year, Sushant School of Art and Architecture | |
| 2004 – 05. | General Proficiency Second Prize for the Fourth Year, Sushant School of Art and Architecture | |
| 2003 – 04. | General Proficiency Second Prize for the Third Year, Sushant School of Art and Architecture | |
| 2002 – 03. | General Proficiency Second Prize for the Second Year, Sushant School of Art and Architecture | |

PROFESSIONAL EXPERIENCE

Registered Architect: Member of the Council of Architecture, India.

Aug. 2011 – May. 2012

Visiting Design Faculty

Sushant School of Art & Architecture

Responsibilities:

- 2nd yr B.Arch design studio unit.
- 3rd yr B.Arch design Studio
- Vertical elective course.
- Development of studio agenda.
- Preparation of theoretical reading list.
- Critiquing of student work.
- Course design for vertical elective.

Aug. 2010 – Present.**Partner**

Kamath Design Studio, New Delhi, India.

Responsibilities:

- Design and materials research.
- Construction strategy development.
- Site planning.
- Architectural design and detailing.
- Preparation of construction documentation.
- Site supervision.

Projects:

- Satyakiran Institute of Healthcare Education and Management, Murthal, Haryana.
- Gnostic Centre, New Delhi.
- Museum of Tribal Heritage, Bhopal, MP.

June 2009 – July 2011.**Technical Designer**

Ball-Nogues Studio, Los Angeles, CA, USA.

Responsibilities:

- Design strategy development for CNC fabrication.
- Development of design concepts through scripting and parametric modelling.
- Preparation of shop drawings for CNC fabrication using scripting and parametric modelling.
- Operation of CNC machinery for project fabrication.

Projects:

- Instal_Lator: A CNC string cutting and colouring machine.
- Feathered Edge: Installation at MOCA-PDC, Los Angeles, CA.
- Drop-In Distraction: Installation at LA County Building Permit Office, Los Angeles CA.
- Cradle: Public art work at Santa Monica, CA.
- TableCloth: Amphitheatre at the Herb Alpert School of Music, UCLA, Los Angeles, CA.
- Gravity's Loom: Installation at the Indiana Museum of Art, Indianapolis, IN.
- Built To Wear: Installation at the Hong Kong| Shenzhen Biennale of Architecture and Urbanism,

- 2009.
 - Lens: Installation at EXPOSED Art Festival, Long Beach, CA.
 - Teepee: Meditation space at Woodstock, NY.
 - Urb_Lab Public art competition, Long Beach, CA.

- Feb. 2009.** **Freelance Exhibition and Furniture Design**
Working in Mumbai: Sampling the Works of Rahul Mehrotra and RMA Architects
Wolk Gallery, School of Architecture + Planning, MIT.
Responsibilities:
 - Design and fabrication of exhibition display system using CNC routed friction-fit joinery.

- Sept. 2007 – Dec. 2008.** **Departmental Archivist**
MIT Department of Architecture
Responsibilities:
 - Digital and physical documentation of student work.

- Aug 2006 – July 2007.** **Architect**
Kamath Design Studio, New Delhi, India.
Responsibilities:
 - Preparation of concept presentation drawings and renderings.
 - Preparation of construction documentation.
 - Design coordination with structural and services consultants.
 - Site supervision.**Projects:**
 - Museum of Tribal Heritage, Bhopal, MP.
 - Stainless steel gateway for Jindal Power Ltd at Tamnar, Chhatisgarh.
 - Kalyanram Residence, Rishi Valley, AP.
 - Singh Residence, Delhi.

- Jan. 2006 – July. 2006.** **Architectural Trainee**
Sanjay Prakash and Associates, New Delhi, India.
Responsibilities:
 - Preparation of concept presentation drawings and renderings.
 - Preparation of construction documentation.
 - Design coordination with structural and services consultants.**Projects:**
 - Mawa Residence, Gurgaon.
 - Kumar Residence, Hyderabad.

- Bakshi Residence, Jammu.
- T-Zed Housing, Bangalore.
- Pragyan School, Delhi.
- Agilent Corporate Office, Gurgaon.
- 360 Degrees Housing, Mysore.
- Deki Housing, Delhi

DESIGN RESEARCH

- 2010 – Ongoing. Manual Construction of Digitally Derived Complex Curved Surfaces Using Bamboo-Crete.**
(As Partner, Kamath Design Studio)
- 2009 – 10. Sphere Packing on Complex Curved Surfaces.**
(As Technical Designer, Ball-Nogues Studio)
- 2009. Equal-Sided Polygonization of Complex Curved Surfaces.**
(As Technical Designer, Ball-Nogues Studio)
- 2007. Digital Modelling of a Typical Baiga Tribal House.**
(As Architect, Kamath Design Studio)

ACADEMIC RESEARCH

- 2008 – 09. Integrating Digital Design and Fabrication with Craft Production.** SMArchS (Design Computation) Thesis, MIT. Advisor: Prof. Terry Knight; Readers: Prof. Lawrence Sass and Prof. Arindam Dutta.
- 2008 – 09. Visual – Physical Grammars: Generative Descriptions for the Design and Manufacture of Building Assembly Systems.** Supported by a grant from the National Science Foundation (Award Number 0748992). PA: Dr. Terry Knight, Co-PA: Dr. Lawrence Sass, MIT. (As Associate Researcher)
- 2007 – 08. yourHouse: A Reinterpretation of the Historical New Orleans “Shotgun” House Utilizing Recycled Plywood and Computer Numerically Controlled (CNC) Milling Machines.**
(As Student Researcher, Digital Design and Fabrication Group, MIT Design Lab).
- 2007 – 08. Craft in Oltrarno, Florence:** A study on the use of digital technology to preserve the practice of craft in the Oltrarno neighbourhood of Florence, Italy. (An independent study through the Digital City Design Workshop, MIT, funded by the Comune di Firenze, Italy)
- 2004 – 05. The Hindu Temple as Cosmogenic Architecture.** B.Arch Dissertation. Coordinator: Prof. Rajat Ray, Sushant School of Art and Architecture.

PUBLICATIONS

- 2012.** **Reinterpreting Tal Chhapar.** Int|AR Vol 3, 2012. Journal of the Department of Interior Architecture, Rhode Island School of Design. (Co-Author)
- 2009.** **Recrafting Oltrarno.** Appendix to 'Technology, Livability and the Historic City: Future of Florence', Dennis Frenchman, Anne Beamish, William J. Mitchell, MIT, 2008.
- 2008.** **Visual-Physical Grammars.** SIGraDi 2008. Proceedings of the 12th Iberoamerican Congress of Digital Graphics. La Habana, Cuba. (Co-Author)
- 2008.** **Visual-Physical Design Grammars.** ACM SIGGRAPH 2008. International Conference on Computer Graphics and Interactive Techniques. Los Angeles, CA, USA. (Co-Author)

EXHIBITIONS

- 2010 (Photography).** **Inside-Outside.** Four digital prints exploring the idea of 'home' in Downtown Los Angeles. A part of the Group Art Show at Rosslyn Lofts, July 2010 **Downtown LA Art Walk.**
- 2008 (Design).** **Greek Meander Wall.** A digitally fabricated prototype of Visual-Physical Design Grammars exhibited at the ACM **SIGGRAPH 2008** Art Gallery. (Co-Author)
- 2008 (Design).** **Kaleidocycle Canopy.** A self-organizing, kinetic canopy shown at **DesComp 08:** an exhibition of work exploring and extending the relationship between design and computation. Boston Society of Architects, American Institute of Architects and the MIT Department of Architecture.
- 2008 (Design).** **yourHOUSE.** A full-scale contemporary prefabricated house at **Home Delivery:** a survey of the history of the prefabricated home, **Museum of Modern Art**, New York. (As Student Researcher)
- 2008 (Photography).** **Things That You Don't.** Two digital prints exhibited in 'March of Memories': a street exhibition in Delhi to mark National Street Theatre Day.

TEACHING AND LECTURES

- 2011 – 12.** **Seminar on Materials & Simulations in Architectural Design**
A seminar examining the role, advantages and disadvantages of the simulation of material behaviour in design offered as a vertical elective course at Sushant School of Art & Architecture, Gurgaon.

- 2011. Craft & the Computer: Theory & Practice**
Lecture at the Department of Architecture, Computation Lecture Series, Massachusetts Institute of Technology, Cambridge, MA.
- 2010. What Can a Person Do That a Computer Cannot Do? (But How Can a Computer Help Anyway)?**
Guest Lecture for the Masters in Craft & Technology Programme, CEPT, Ahmedabad.
- 2010. Designing at the Confluence of the Digital and Physical.**
Lecture at the Studio U+A Lecture Series, Gurgaon.
- 2010. The Construction of Complex Forms With Simple Parts.**
Guest lecture at the Second Year Architectural Design Studio, Sushant School of Art and Architecture.
- 2008 – 09. Digital Fabrication – Professional Applications** (Graduate Level Teaching Assistant to Prof. Dennis Shelden, MIT).
I conducted computer lab sessions to teach students Digital Project, as well as advise students on assignments and term projects.
- 2008 – 09. Introduction to Computational Design** (Undergraduate Level Teaching Assistant to Prof. Lawrence Sass, MIT).
I conducted computer lab sessions to teach students AutoCAD, laser cutting and 3D printing, as well as advise students on assignments and term projects.

TECHNICAL SKILLS

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|---------------------------------------|---|
| Design Scripting | <ul style="list-style-type: none"> • Rhinoscript |
| Parametric Modelling | <ul style="list-style-type: none"> • Grasshopper for Rhinoceros • Digital Project • CATIA |
| BIM | <ul style="list-style-type: none"> • Revit |
| CAD Modelling | <ul style="list-style-type: none"> • Rhinoceros • AutoCAD |
| Rendering and Image Processing | <ul style="list-style-type: none"> • Maxwell for Rhinoceros • 3D Max • Photoshop |
| Digital Fabrication | <ul style="list-style-type: none"> • Day-to-day operation of 3-axis CNC Router. • Operation of water-jet cutter. |
| Rapid Prototyping | <ul style="list-style-type: none"> • Day-to-day operation of Laser Cutter. • Day-to-day operation of powder based 3D Printer. |

LANGUAGES: English (fluent), Hindi (intermediate), Tamil (basic).

REFERENCES: Available upon request.