

# PRANEET MATHUR

ARCHITECTURE

SUSTAINABILITY

ART

TECHNOLOGY

DESIGN

The word "Technology" is derived from the Greek term "Techne" which means Art and Craft. Though advancement of technology is a responsibility generally attributed to engineers and scientists, I believe architects are the ones most responsible for it, as we operate in the intersection of art, science and technique.

During my college years studying architecture, I have explored the use of computational design and software in architecture. I have experimented with programming languages and parametric design tools to design better and produce quality results faster.

Thank you for your time and consideration

# CURRICULUM VITAE





# Professional Practice

August 2018 to Present –

Interaction Designer at **Flux.Real Design Collective**. Working remotely on fascinating interactive projects created in Unreal Engine 4 with a team of highly skilled architects and designers, my responsibility is to implement interactivity, customizability and other creative elements in the projects. Flux.Real Design Collective is an interdisciplinary design research collective working in the intersection of Architecture, Game Development, XR Interactive media, Visual and Motion Graphics, Cinematics, 3D printing and Advanced Fabrication.



May 2017 to July 2017 –

Architectural summer internship and training at architectural firm **Morphogenesis**. Worked on major design projects at various stages, using tools like Revit and Dynamo for BIM. Also accompanied and assisted Architectural Photographer **Randhir Singh** in the documentation of British Council (LEED Certified and awarded Interior Design project).

**morphogenesis**

May 2016 to July 2016 –

Architectural summer internship and training at architectural firm **Morphogenesis** (leading firm in sustainable development) in New Delhi (N-85B, Panchsheel Park, New Delhi, Delhi). Worked in teams led by Ar. Alok and Ar. Arnab Dutta; interacted with **Ar. Manit Rastogi and Ar. Sonali Rastogi**. Handled tasks such as conceptual design, massing, physical models, client meetings and presentations, concept development, façade and detail design, interior design, landscape design, 3D models, rendered views and working drawings. Worked on major international and national projects including an Institutional project in Paro (Bhutan), a Group Housing project in Kolkata and a Mixed use development project in Darjeeling (West Bengal).

**Architect  
Hafeez  
Contractor**

May 2015 to July 2015 –

Architectural summer internship and training under world renowned **Architect Hafeez Contractor** in Mumbai (29, 1st Floor, Sonawala Building, Horniman Circle, Bank Street, Fort, Mumbai).

Worked in a team led by Ar. Shabana Samir Syed and Ar. Shyam Sonar.

Handled tasks such as façade design, details, 3D modelling, rendered views, client presentations, and working drawings. Worked on major projects including Green Homes Residential project at Manchanahalli (Bengaluru), Luxury Hotel at Tirupati and Proposed Residential Development “Nirvana” by Orbit group.



# Training

## 2018 -

Completed **Masterclass™ Course on Architecture** by Frank O. Gehry. Participated in workbook assignments, community discussions and projects.

Studied the **Whole Building Design Guide** and the courses offered by WBDG Online.

## January 2017 -

Attended **BIM workshop** by CADD Center during 59th Annual NASA Convention 2017. Learned how to use advanced **Mechanical, Electrical, Lighting and Plumbing** tools in Autodesk Revit.

Completed **Autodesk Building Performance Analysis Certificate Course**.

Proficient in advanced BIM Techniques for Energy Analysis and application of sustainable design practices using BIM software including Autodesk Revit, Autodesk Green Building Suite, Autodesk Flow Design, Autodesk Ecotect 2011. Learned how to apply active and passive design techniques to achieve sustainable design and analyse its efficiency, using various software tools and resources.



## October 2016 -

Trained by CII recognised professionals at “**Advanced Training Programme on Green Buildings**” held in Mumbai during Green Building Congress 2016 by **Indian Green Building Council (IGBC)**.

Learned about the use of the IGBC Green Rating System and evaluation of a building using this system. Studied various case studies and the process of applying and receiving a green rating from IGBC for a building.



## January 2016 -

Trained and certified by **Digital Tutors** (now Pluralsight) for essential creative software tools including Adobe Photoshop, Autodesk AutoCAD, Trimble SketchUp, V-Ray, Rhinoceros, Grasshopper and Autodesk Revit, among others.



# Achievements

2017 –

**All India top 9** in INSDAG “Innovative Use of Steel in Architecture” Design Competition 2017.

**All India top 67** entries in **Annual NASA Design Competition 2017**. Worked under guidance from Ar. Alok Decruz at Morphogenesis.

2016 –

Overall **2nd runner up** in **ZoNASA 2016** (East Zone/Zone-4).



ZoNASA (Zonal NASA) is a zonal level architectural festival organised every year by architecture colleges in India by National Association of Students of Architecture. Various fun, informal & formal events and competitions related to the field of architecture are held and winning colleges are decided accordingly.

2015 –

**Awarded by CBSE** for painting titled “Education” on 152nd Birth Anniversary of Rabindranath Tagore.

**Awarded ‘Proficiency in Art’** in 12th grade at Delhi Public School, Gurgaon.



# Responsibilities

## Academic year 2017-18 –



**Public Relations and Coverage Head, Students' Society of Architecture, Birla Institute of Technology, Mesra.**

Responsible for all social networking, coverage and documentation of activities conducted by the club.

## Academic year 2016-17 –

**Treasurer, Students' Society of Architecture, Birla Institute of Technology, Mesra.**

Responsible for all monetary decisions and actions taken by SSA. Member of the executive body. Major projects include multiple departmental workshops on allied disciplines and Bitotsav 2017

## Academic year 2014-15 and 2015-16 –

**Active Member, Students' Society of Architecture, Birla Institute of Technology, Mesra.**

Worked in a team to design and construct various structures and installations for events held in the college. Major projects include Bitotsav 2016 - Bamboo Pavilions and Main Stage Design. Worked extensively with locally sourced Bamboo using non-electric tools and vernacular methods of construction to create parametric and mathematically generated structures.

## Academic year 2013-14 –

**Art Director in 12th grade – Delhi Public School, Gurgaon.**

Managed and directed fellow students while organising various events and creative tasks.

## Academic year 2012-13 –

**Art Secretary in 11th grade - Delhi Public School, Gurgaon.**

Worked on decoration of school premises for various events. Designed formal invitations, displays and posters.



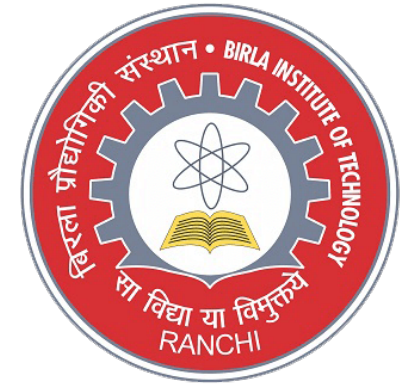
# Education

July 2014 to Present (Graduation in 2019) –

Pursuing **Bachelor of Architecture** [RIBA Part-II Equivalent]

at **Birla Institute of Technology, Mesra** (Ranchi), Jharkhand, India

One of the premier institutes in India for Architectural studies



May 2014 –

All India Senior School Certificate/HSC + Secondary School Certificate/SSC (CBSE)

**Delhi Public School, Gurgaon, Haryana, India**

Centralized examination for SSC and HSC students respectively, in India. Subjects for All India Senior School Certificate Examination/SSC (Equivalent to UK A-Levels):  
Mathematics, Physics, Chemistry, English, Physical Education.





# Exposure

## 2017 -

Accompanied and assisted Architectural Photographer **Randhir Singh** during interior photography and documentation of Morphogenesis' British Council Project. The building was originally designed by Charles Correa and Morphogenesis was hired to redesign the interiors. Learned various techniques employed in Architectural Photography, including using a Tilt-shift lens, camera filters and other essential camera settings.

Detailed Case study of **Hall of Nations**, Pragati Maidan designed by Ar. Raj Rewal

Detailed Case study of **IIM Bangalore** designed by Ar. B. V. Doshi

## 2016 -

20-day visit to **Singapore**, studying the Urban Planning, Architecture, History, Cultural diversity and their effects on each other in different parts of the Nation.

Detailed Case study of **National Science Centre**, New Delhi designed by Ar. Achyut Kanvinde

Tour to **West India** for studying West Indian architecture and culture

Visited and studied places of architectural importance such as Mill Owners' Association Building by Le Corbusier, IIM Ahmedabad by Ar. Louis I. Kahn, Centre for Environmental Planning and Technology and National Institute of Design, Ahmedabad.

## 2015 -

Tour to **South India** for studying South Indian architecture and culture

Visited and studied places of architectural importance like Hampi and Auroville.



# Experience

## 2018 –

Developed a **plugin for Grasshopper - “Fractals”** - Compatible with Rhinoceros 6, using the Grasshopper and Rhino v6 SDK. Programming done from scratch using Visual Basic programming language and published on **Food4Rhino.com**

Plugin allows users to create 3 types of mathematically generated fractal patterns. Developed entirely from scratch in a span of **4 days**.

## 2017 –

Conducted a workshop on **Essential Adobe Photoshop Skills** for students of BIT Mesra (Organised by SSA)

Alongside Akashjit Singh and Anna John.

Introduced essential tools, terminology required for architectural rendering in Photoshop. Students learned how to use Layers, Masks, Blending options, Layer styles, Smart Objects, etc.

**Interior Photography** and Food Photography for Chaibubble Café, Ranchi designed by Ar. Anupam Deb

## 2016 –

Student Delegate, **India Design 2016** (an OGAAN initiative), New Delhi

Attended lectures and debates featuring iconic architects and designers from around the world such as Ar. Toyo Ito, Ar. Bijoy Jain, Mario Bellini, Tom Dixon, Dominique Jean-Lavabre, Ar. Greg Reaves and Ar. Sanjay Puri amongst others.

**Sustainable Fanbox Design** for Rio Olympics

International architectural competition organised by archasm.in - among top 150 submissions. Worked in a team along with Siddhant Jena and Meenal Bankoti.



# Software Skills





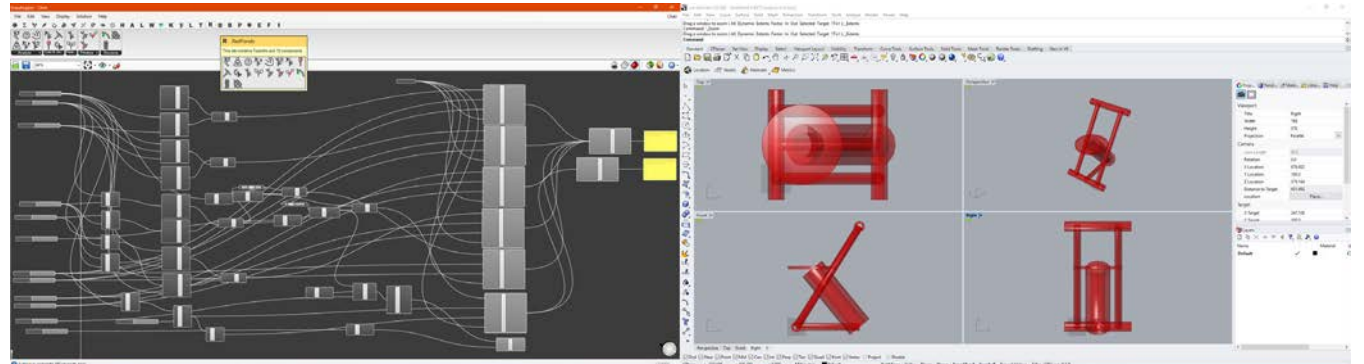
# Work in Progress

## RedPanda -

A plugin for **Grasshopper** and **Rhino**, RedPanda was started when I realized the lack of a **BIM equivalent** for design and construction using **Bamboo** as a primary material.

The vision for the plugin is to allow users to easily **generate detailed**

**geometry** and models for their bamboo designs, being able to **modify** joinery, end cuts and integration with other structures, also **analyzing the design** in terms of cost, weight, efficiency, thermal performance, structural integrity, etc.



DRONE  
MANOR

with

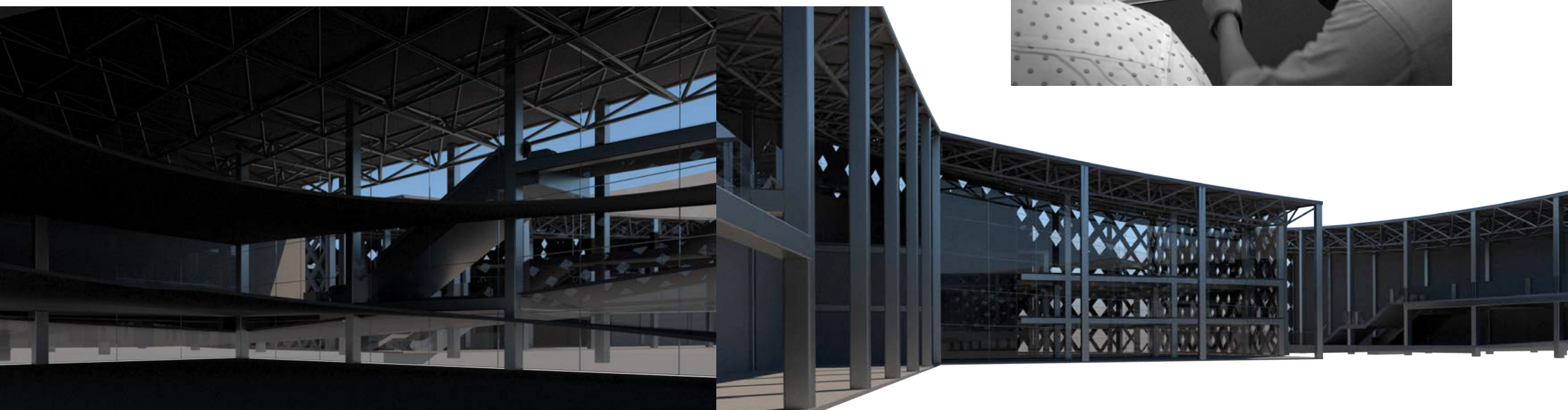
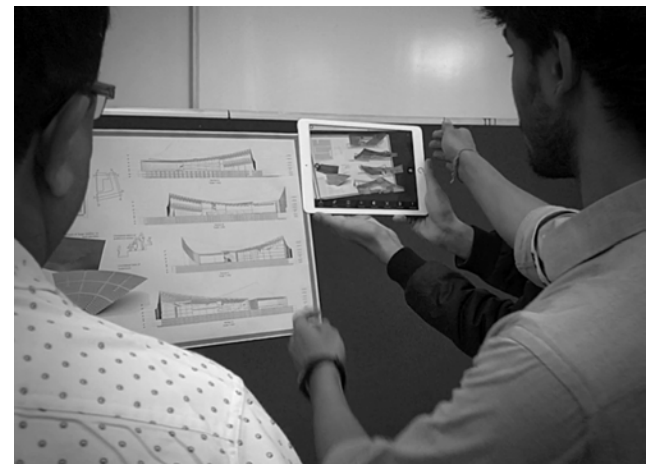
FLOX<sup>REAL</sup>  
DESIGN COLLECTIVE

Boxed



## "Centre for Interactive Art" - Undergraduate Thesis Project

Using **Augmented Reality** and **Game Engines** to present the final design, this project is focused on encouraging the development and recognition of interactive art forms in India.





# Contact

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