

CURRICULUM VITAE



LIKHINYA KVS

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Council of Architects, India, License no.- CA/2022/141565

WORK EXPERIENCE

FEB 2022 - APRIL 2023

Research Project Associate

(IISC) INDIAN INSTITUTE OF SCIENCE

PROF. VISHAL SINGH. IMPACT4IMPACT LAB, CPDM

- Research and design formulation of futuristic modular BE ecosystem to add a new asset category in the real estate market.
- Architectural design of the plug in - plug out infrastructure focused upon decoupling of built spaces from the location
- Developing proof of concept using tools like VR-AR, eye tracking and physical prototyping

AUG 2021 - MAY 2022

Teaching Associate

(CEPT) CENTRE FOR ENVIRONMENTAL PLANNING AND TECHNOLOGY

COURSE 1 - "BEYOND MAINSTREAM MATERIALS", PROF. REBECCA REUBENS

COURSE 2 - "ADVANCED STRUCTURES", PROF. VINOD SHAH & MANGESH BELSARE

COURSE 3 - "SKIN, SURFACES AND FINISHES", PROF. DEXTER PEREIRA

- Guided students with prototyping and digital fabrication for the projects - technician toolkit in rubber, sanitizer dispenser in recycled plastic, tripod stand in paper mache, outdoor planter in terracotta & louver system in bamboo - saresh.

FEB 2021 - MARCH 2021

Research Assistant

LONDON DESIGN BIENNALE 2021

NISHA MATHEW GHOSH, CURATOR INDIA PAVILION

- Contributed to team dynamics (10 people) and conceptual understanding of documenting the "Traditional Water Systems in India" for London Design Biennale 2021.
- Individual detailed study of the water systems in coastal states of AP, Goa, Gujarat, Karnataka, Kerala, Orissa, Tamil Nadu and West Bengal.

JAN 2021 - PRESENT

Independent 3d printing Researcher

CEPT UNIVERSITY & OTHER INDUSTRY COLLABORATORS

- Undergraduate dissertation thesis - "Initiating 3D printed Mud architecture in India" at CEPT University guided by Avishek Das (Aalborg University). Material science study and experiments of mud at CEPT Material Testing & structural laboratory.
- 3D Printed 1:1 wall prototypes in soil in collaboration with Morphedo Technologies Pvt. Ltd., Noida & Minvayu Circular Economy Innovation, Auroville. Other collaborations: (Wasp, Italy, Deltasys E-Forming, Belgaum & Tvasta Manufacturing Solutions Pvt. Ltd., Chennai.

OCT 2021 - NOV 2021
& JULY 2018 - OCT 2018

Professional Service & Student Assistant

CEPT WORKSHOP

CERAMICS & CLAY LAB

- Maintenance of ceramic & clay workshop, responsibility of kilns, inventory management, guiding students in projects, weekend workshops & assisting courses - "Ceramics", Snehal kashikar.

JULY 2019 - DEC 2019

Architecture Student Intern

GDK DESIGNS

AR. GIRISH DARIYAV KARNAWAT

- Prototyping of a modular staircase model at 1:10 scale in 3D printed PLA and wood; Setup, operation & maintenance of Ender 3.0 Printer.
 - Daily site visits and photo documentation of VKPK bungalow, Plumbing and electrical measure drawings, presentation drawings, research and referencing
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EDUCATION & TRAINING

- OCTOBER 2023 - PRESENT **MSc ITECH**
University of Stuttgart
- JULY 2016 - JULY 2021 (CGPA - 3.2 / 4.3) **Bachelor of Architecture**
(CEPT) Centre for Environmental Planning and Technology, Ahmedabad, India.
- FEB 2020 - JULY 2020 (ECTS GRADE - A) **Exchange Semester**
(ENSAPLV) Ecole Nationale Supérieure d'Architecture de Paris-La Villette.
Project - The Axis - "Reconnecting the metropolitan landscapes of Grand Paris"
Guided by - Prof. Jim Njoo, Romain B, Team - Likhinya, Ajay, Driti, Heer.
- JULY 2014 - JULY 2016 (93%) **Senior Secondary School**
Kendriya Vidyalaya, Iffco Aonla Bareilly, India.

RESEARCH INTERESTS

Innovative materials

Develop natural binders to build Soil Eco houses in different climates

3D Printing

Reinterpreting craft: Making technology (3DP) a modern tool for artisans

Generative design

Localizing computation: developing a design platform for participatory community co-creation to bring together the vocabulary for vernacular Design with technology

PUBLICATIONS

"Initiating additive manufacturing of mud houses in India: reviving the vernacular cob houses in Kutch", KVS,L. & Das, A., 2023, accepted for the proceedings of CAADRIA conference 2023

"A road map for large scale earthen 3D printing in India: case studies, conversations, and emerging standards", KVS,L. & Curth,S., 2023, (to be published)

SKILLS

Languages	English French (A1 certified) Hindi Telugu Gujarati	Fabrication 3D Printing VR-AR, Eye tracking 3-Axis CNC Router Laser Cutting	Digital Modeling Rhino + Grasshopper Sketchup Autodesk CAD
Documentation	Research & Development Sketching Hand Drafting Measure Drawing	Metal Fabrication Wood Fabrication Clay, Recycled Plastic, Bamboo & Rubber Fabrication	Visualization Adobe Suite Lumion Enscape for Rhino

COMPETITIONS

- JULY 2021 **Best Regenerative and Mitigation Design & Winner of Student Workshop**
DESIGN RESILIENCE IN ASIA, NATIONAL UNIVERSITY OF SINGAPORE
Project - "The Oases" centre for refuge and relief
Guided by - Prof. Sankalpa, Team - Likhinya, Vidhi, Kanxa
The design focuses upon "Building self-sustained communities centered around water management solutions" for the city of Naga, Philippines.
- DECEMBER 2021 **Honorable Mentions**
DOCEXDOCE COMPETITION, 2021
Project - "Chaonong Theme Park", Team - Likhinya, Vidhi, Kanxa
The design focuses upon redeveloping the ghost city of Zhejiang, China in 48 hours of competition time.
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SCHOLARSHIPS

- AUG 2016 -2021 **President's Scholarship**
(CEPT) Centre for Environmental Planning and Technology, Ahmedabad, India.
50% tuition fee on merit for Bachelors (5 years)
- AUG 2021 **Nirmal Dhingra Scholarship**
(CEPT) Centre for Environmental Planning and Technology, Ahmedabad, India.
Remuneration for Innovative Research Thesis on "Initiating 3D printed Mud architecture in India"
at Faculty of Architecture
- AUG 2016 **Rajya Kanya Samman Nidhi Scholarship**
Kendriya Vidyalaya, Iffco Aonla Bareilly, India.
Remuneration from the Uttar Pradesh state government for achieving 93% in senior secondary
board examinations
- AUG 2016 & AUG 2014 **Iffco Scholarship**
(IFFCO) INDIAN FARMERS FERTILIZER COOPERATIVE LIMITED
Remuneration for achieving 93% in board examinations

ACADEMIC ACHIEVEMENTS

- APRIL 2022 & JUNE
2022 **Swinburne University, Melbourne**
Faculty of Architecture
Guest Lecture, Mid & Final semester Juror
- AUG 2016 **(NATA) National Aptitude Test for Architecture**
2nd highest score in India
- AUG 2016 **BArch Entrance Examinations**
1st Rank in ComedK (Karnataka), Narsee Monjee (Mumbai) & UPTU (Uttar Pradesh) Entrance
Examinations

WORKSHOPS

- AUG 2018 **Light Installation in Wood & Steel**
Navratri Festival
(CEPT) Centre for Environmental Planning and Technology Ahmedabad, India.
- AUG 2018- DEC 2018 **Surface Structures**
(CEPT) Centre for Environmental Planning and Technology, Ahmedabad, India.
- JAN 2018 **Large Hand Built forms in Terracotta**
Roots Cultural Festival
(CEPT) Centre for Environmental Planning and Technology Ahmedabad, India.
- JAN 2018 **Tensegrity Cube**
Roots Cultural Festival
(CEPT) Centre for Environmental Planning and Technology Ahmedabad, India.
- JUNE 2017- JULY 2017 **Architecture in Motion**
(CEPT) Centre for Environmental Planning and Technology, Ahmedabad, India.
- DEC 2016 **(RSP) Related Study Programme**
Divar Island, Goa
- JULY 2016 **Adobe, CSEB, Wattle&Daub and Rammed Earth**
Hunnarshala
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