

Pallavi Ray

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EDUCATION

Master of Science | Architectural Computation

2021 - 2022

UNIVERSITY COLLEGE LONDON

London, United Kingdom

Awarded Alastair Turner Prize, 2022 for best thesis titled Digital Clay: Transferring fabrication knowledge of pottery making into a digital system by training a Machine Learning (ML) model to learn the causal effect of applying pressure on the final form of pots.

Relevant coursework: Morphogenetic Programming, Cyber-Physical Systems, Computational Analysis and Synthesis

Master of Design | Product Design and Manufacturing

2015 - 2017

INDIAN INSTITUTE OF SCIENCE

Bangalore, India

Designed a novel system for cooking by harnessing solar energy for apartment dwellers.
Awarded \$2100 funding from the Govt of India for prototype development.

Relevant coursework: Computer-Aided Product Design, Mechanism Design, Creative Engineering Design, Human-Computer Interaction, Design Thinking

Bachelor of Architecture

2010 - 2015

NATIONAL INSTITUTE OF TECHNOLOGY

Raipur, India

Developed a high-density high rise model to rehabilitate urban informal settlement in context to Indian towns.

Relevant coursework: Building Construction, Structural Design, Building material.

EXPERIENCE

Designer

June 2020 - Present

INDEPENDENT CONTRACTOR

India

- **POST105**: Worked as Computational Designer to develop parametric script for furniture configurator based on given inventory; automating the process from user inputs to production drawings.
- **Makers Asylum**: Mentored students to build and use technology for problem solving with a focus on CAD and VR modules.
- **Compossible Umwelten**: Collaborated as a Creative Technologist by building an open source platform for wearable haptic devices; resolved the geometry for physical form of the wearable band which can turn into a helix in one direction to be easily held in hand and when turned the other side it forms a band, organized the system architecture based on open source policies and relevant licenses, and designed the website for community engagement.
- **SlowStudio**: Initiated inquiry as a Creative Technologist into effects of technology use on stress and attention; manifested ideas into concepts by exploring multimodal making and rapid prototyping to evoke strong human emotion and response through 'reflective' objects.
- **Solulab**: Facilitated as a UI/UX designer in the development of web and mobile application for bespoke solutions in the Transportation and Blockchain industry; steered a team of 4 designers and 2 frontend developers.

Installation Designer

INDUSTRIAL DESIGN CENTRE, IIT, BOMBAY

October 2018 - January 2020

Mumbai, India

- Planned the layout for tangible exhibition design for Virtual Experiential Museum on Ajanta Caves at National Museum Delhi in collaboration with the Ministry of Culture, India.
- Coordinated with various teams to integrate digital content and physical exhibits.
- Led design and execution for museum installations for optimal user experience.
- Supervised a team of 15 fabricators and liaised with multiple vendors through completion.

Assistant Professor

SCHOOL OF DESIGN, MAHARASHTRA INSTITUTE OF TECHNOLOGY

June 2018 - October 2018

Pune, India

- Instructed Bachelor of Design students on the subjects of Art, Design and Technology History and Design Fundamental.
- Created the teaching material aligning with the curriculum and designed assignments to enhance learning.

SKILL SET*Programming:* C#, Python, Javascript*Software:* Rhino + Grasshopper, Unity, Fusion 360, AutoCAD, Autodesk 3dsMax, Adobe Suite, Figma*Others:* Machine Learning, Prototyping, Fabrication, Arduino, HCI, Design Thinking and Research**PUBLICATION & ACTIVITIES**

“Virtual Experiential Museum on Ajanta caves (VEMA): An Interactive Rediscovery of an Archaeological Site in India through Embodiment of Digital Heritage”, Pallavi Ray, Ojas Kadu, Poster Presentation, Design Computation Input/Output 2020 Conference

“Doodling with Code”, Speaker, Processing Community Day at Bangalore 2020

“Climate + Housing”, Hackathon participant, MIT India Initiative 2020

“Automating the process of gaze tracking data using soft clustering”, JeevithashreeDV, Pallavi Ray, P.Natarajan, Biswas Pradipta, Proceedings of the IEEE International Conference on Intelligent Computing, Instrumentation & Control Technologies (ICICT-2017), IEEE Xplore

TRAINING & CERTIFICATIONS*Architect License* | Council of Architecture, India*Advanced Technologies in wood working machines and application* | Institute of Wood Science and Technology, India**PERSONAL INTERESTS**

Creative Coding, Running, Knitting