Workshops

Name of the Event: Photogrammetry Workshop

Dates: 1st, 2nd and 3rd of November 2022

Venue: Green and Orange

Name of the Expert: Studio Gestalt - Ar. Neeraj Godse (Heritage Consultant) &

Ar. Rajesh Shinde (Digital Consultant)

Co-ordinated by: Dr. Vaidehi Lavand, Ar.Ramiya Gopalakrishnan

Introduction of Expert

Formed in 2017 and based in Pune, Gestalt is a Heritage Consultancy actively involved in projects related to the conservation of tangible & intangible heritage. They undertake research, documentation, restoration for the promotion of and to create awareness about cultural heritage. They have successfully completed projects of interior design, architecture, conservation and publication all over India. They harbor a passion for all things old and strongly advocate sensitivity towards heritage & to allow it the luxury of aging gracefully. It is the quality, artifice & craftsmanship that have led to their survival so it is not good because it is old; old because it is good.

Neeraj Godse Bio:
Neeraj is a Heritage Consultant working with Studio Gestalt since 2021. He acquired his Bachelor's and Master's in Architectural Conservation from Sinhgad College of Architecture, Pune. He worked with Conservation Architect Saurabh Joshi for a period of 2 years during his academic years. He completed his Conservation Training with the Directorate of Archaeology and Museums, Maharashtra under the Guidance of Dr. Tejas Garge. He also has experience working in Landscape Architecture. He is a knowledge-seeker, explorative in nature and sensitive towards heritage.

Ar. Rajesh Shinde:

Brief of the Session:
A 3-day workshop. Following were the sessions.

Day I by Rajesh & Neeraj - 5-hour Session

- Introduction to Architectural Heritage Conservation
- Need & Process of Architectural Conservation
- Ethical in Conservation
- Photogrammetry, TSS, Drone Mapping & LiDar as digital tools
- Role of Photogrammetry in Heritage Conservation of Immobile assets?
- How can one leverage them as both professionals & laymen?

- Equipment's / Gadgets / Hardware / PC Requirements, etc.
- Photography basics/ rules / settings /environment setup for photogrammetry / LIDAR
- Exceptions for photogrammetry (types of surfaces that can be covered)
- Introduction to free software and state of the art technology for Photogrammetry and LIDAR:
- Capturing Reality / Meshroom / Agisoft Scan

Day II by Rajesh - 5 Hours Session
- Hands-on Exercise of an object or surface (preferably a Facade or a life-sized sculpture/object)
- Image formats, Pre-processing RAW Images to JPEG / TIFF/ PNG - Darktable / Xnview for Image processing
- Point Clouds – Formats and use cases etc.
- Capturing Reality – Introduction to UI and Use cases – Detailed UI Introduction

Day III by Rajesh - 5 Hours Session
- Photogrammetry Exercise Continued on site
- Why and where else can we use it? Use cases of photogrammetry in different fields.
- Use cases: BIM/Apps/Maps/Digital Archiving/3d printing etc.
- Photogrammetry vs LIDAR
- Photogrammetry Hardware / LIDAR Hardware
- LIDAR – Faro / Leica TTS.
- Q&A
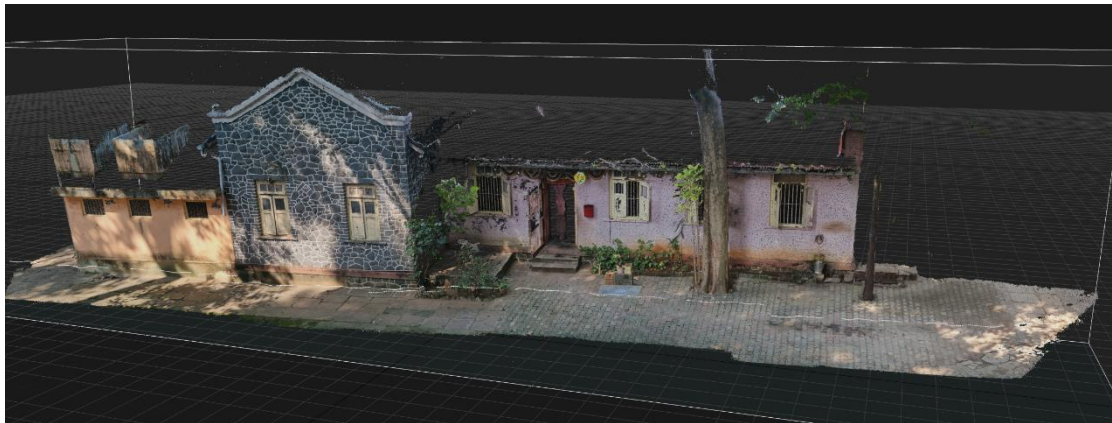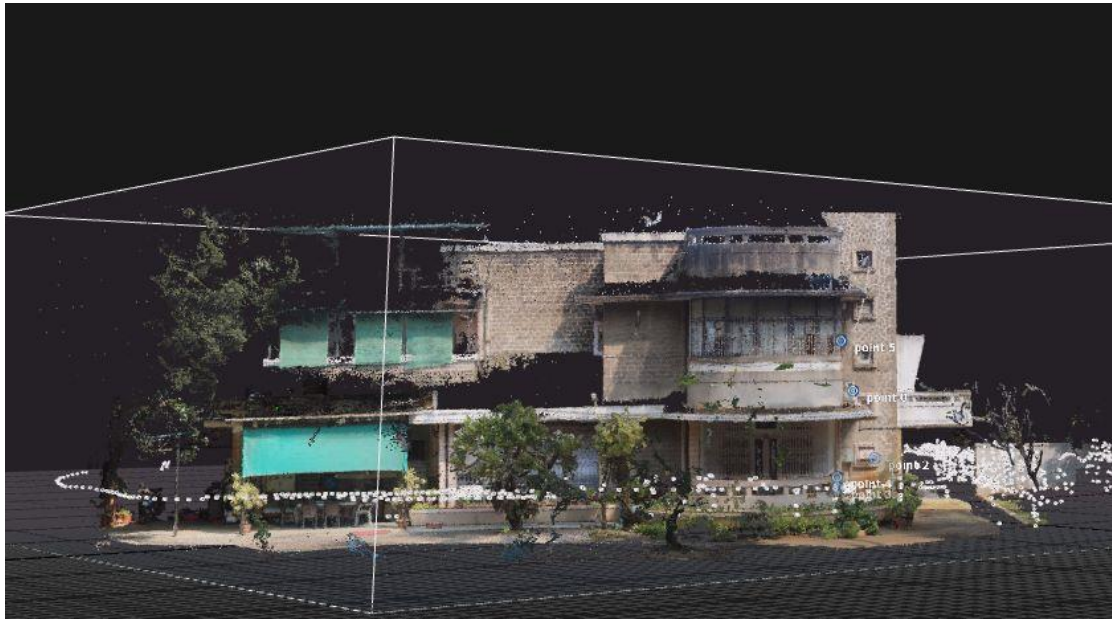- Workshop Conclusion

Photographs

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