

Education

School of Architecture & Planning, Morgan State University, Baltimore, USA

PhD in Architecture, Urbanism & Built Environment, August 2023 - present

College of Design, Construction & Planning, University of Florida, Gainesville, USA

Master of Historic Preservation August 2018- May 2020

Faculty of Architecture, Tribhuvan University Kathmandu, Nepal

Bachelor of Architecture October 2011- August 2016

Work Experience

Historic Preservation Research Associate- NCPTT, National Park Service Natchitoches, USA

(Governmental Agency- Technical Research) October 2020- 2021

- Documenting all existing slave and tenant farmer cabins in the United States using digital documentation techniques like Laser Scanning and Photogrammetry
- Visualization of vernacular heritage structures through video animation of the point cloud data
https://youtu.be/H23aTV_jLwQ?si=sqs6df4w4KWY0VrF
- Contributed in optimizing productivity on and offsite and make the documentation- digitization processes lean and intelligible.
- Developed sustainably optimized workflows for interoperability while working with point cloud data, testing out multiple software applications including Faro Scene, AutoCAD, Revit, Leica Cyclone, Autodesk Recap, Agisoft, Reality Capture, Cloud Compare, Sketchfab, and Bentley Tools
- Work on Story Maps – to digitally tell the stories collected including oral histories, archived photographs, and video animations

US ICOMOS Intern 2019 – NCPTT, National Park Service Natchitoches, USA

(Governmental Agency- Technical Research) June 2019—Aug 2019

- Laser scanned tenant farmer cabins around Natchitoches parish, using FARO Focus Scanner.
- Post –processing using various software’s such as FARO Scene, & Bentley Point Tools to produce images, video – clips, and process 3D scans.
- Rendered videos using editing software’s such as Adobe Premiere, & Movie Maker
- Research paper on The Vernacular Architecture of Tenant Farmer Cabins in Louisiana.

Preservation Nantucket, Nantucket, Massachusetts

July 2020—August 2020

- Researched vehicular transportation through the study area to understand the flow of traffic; Generated a conceptual model for the Maria Mitchell Association 33 Washington Street: Resilience and Adaptation Strategy

Graduate Research Assistant, University of Florida, Gainesville, Florida

August 2018—May 2019

- Post –processing using various software’s such as Autodesk Recap, & Bentley Point Tools to produce images, video – clips, and process 3D scans.
- Worked on the CAD drawings to produce the architectural drawing set for the Arrivas House, St. Augustine.
- Laser- scanned the Mt. Carmel Church, Gainesville, using FARO scanner and stitched the scans together using the Autodesk Recap, and Bentley Point Tools.

Architect, Envision Builders, Kathmandu, Nepal

October 2016—June 2018

- Worked on the design and CAD drawings — architectural, structural, plumbing and mechanical drawings for the buildings in Kathmandu
- Visualization of the design through 3D modelling in Revit & SketchUp, render in Lumion; post processing using Adobe Photoshop
- Assisted in site supervision and preparation of quantity estimation, bill of quantities and scheduling of the project

Research

Author, *The Impacts of Community Engagement Approaches & Tools: Raising Public Awareness in Cedar Key, Florida*

Master Thesis, University of Florida

- Study of different community engagement approaches & tools used in Cedar Key
- Evaluation of these tools to understand if it helped in raising awareness about Sea Level Rise among local Cedar Key residents or not.