Pankaj Joshi, EIT

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CERTIFICATES

- Engineer-in-Training Certification (NCEES ID #20-876-02)
- Registered Engineer in Nepal, Nepal Engineering Council

TECHNICAL SKILLS

Python, R, ArcGIS Pro, ArcGIS Online, AutoCAD, Cube, MS Office Suite

EDUCATION

M.S. in Transportation and Highway Engineering   **May 2021**

University of Connecticut, Storrs, CT

Courses:

Transportation Planning	Street and Highway Design	Case Studies in Transportation Engineering
Traffic Engineering Characteristics	Transportation Safety	Statistical and Econometric Methods for Transportation Data Analysis

Thesis: Estimation of Pedestrian Volume at Crosswalks Using Traffic Conflict and Geo-spatial Data

B.E. in Civil Engineering   **Sep 2013-Dec 2017**

Institute of Engineering, Tribhuvan University, Pulchowk Campus, Nepal

Project: RCC design of a multistory building

PROFESSIONAL EXPERIENCE

➢ **Associate Regional Planner**   **June 2021-Present**

Fresno Council of Governments, Fresno, California

- Carry out traffic impact studies.
- Data analysis and visualization.
- Manage GIS licenses and provide GIS and mapping Assistance.
- Land use modeling.
- Assist in developing Regional Transportation Plan/Sustainable Communities Strategies.

➢ **Graduate Research Assistant**   **Aug 2019-May 2021**

Connecticut Transportation Safety Research Center, Storrs, Connecticut

- Created and updated mock-up surveys in Survey123 in ArcGIS Online for guiderail inspection.
- Created and updated web maps for Collector app in ArcGIS Online for viewing guiderail data.
- Created and updated dashboard to show progress in guiderail inspection tasks.
- Created a mock-up of a site to explore GIS data available by CTDOT in ArcGIS Online.
- Prepared reports and user manuals for applications in ArcGIS Online to help data collectors and users.
- Digitzed GIS data inventory of transportation assets like traffic signals, guiderails, and curb ramps for CTDOT in ArcGIS Pro.

➢ **Graduate Research Assistant**   **Aug 2019-Jan 2021**

University of Connecticut, Storrs, Connecticut

- Explored data and performed regression analysis in R for modeling and hypothesis testing.
- Compiled database for traffic conflict data from previous studies in Excel using folder connection and pivot table.
- Extracted land use data and network characteristics using Network Analyst tool in ArcGIS Desktop.
- Developed models in ArcGIS for iterative geoprocessing calculations.
- Prepared plots and data visualization using Python and R.

➢ **Engineering Intern**   **May 2018-June 2019**

Paradigm Engineering Consultancy Pvt. Ltd, Dhangadhi, Nepal

- Created and updated roadway profiles of a six-lane highway design in AutoCAD under the supervision of senior engineers.
- Prepared quantity and cost estimates for roadway construction as well as other construction projects.
- Supervised junior technicians in creating CAD drawings.