

## **Neha Shrestha (EIT expected in Nov 2019)**

2900 Kingstown Road, Apt F-624  
Kingston, RI, 02881

401-363-6639  
Email: neha.stha1990@gmail.com

### **Education**

#### **M.S. in Transportation Engineering**

**Aug 2019**

Civil and Environmental Engineering, University of Rhode Island, Kingston, URI

Thesis Topic: "Performance Prediction of Warm Mix Asphalt containing Reclaimed Asphalt Pavement"

Graduated (8/2018- 8/2019, 1 Academic year) – 3.81GPA

#### **Bachelor of Science, Civil Engineering**

**Feb 2013**

Nepal Engineering College, Pokhara University, Nepal

Final Year Project: "Development of Micro-hydropower in Nepal"

Graduated (11/2008 – 2/2013) – 3.33 GPA

### **Employment History**

#### **Summer-Intern (Civil Engineer)/ Rhode Island Department of Transportation (May 2019 – Aug 2019)**

- Assisted in bid documents, final inspection and narrative of completed Construction Project
- Cost estimation of repairs and maintenance projects, prepare reports and memos
- Assisted in preparing addenda in the ProQuest
- Familiar with MUTCD manual and Traffic management
- Familiar with RIDOT Bluebook and Greenbook for good understanding of technical specification
- Asphalt Materials testing, soil testing, core testing, asphalt testing
- Evaluation of Tire-Pavement Sound Density using On-Board Sound Intensity (OBSI) Method

#### **Civil Engineer (Road Maintenance Engineer)/International Labor Organization (Jun 2015 -Mar 2017)**

- Prepared geometric design of highways and streets detailed project report, cost estimate of all the district roads under periodic maintenance
- Planning and designing of roads as per standard
- Performed Traffic and alignment survey at various checkpoints on highway (more than 700 miles)
- Supervise detailed survey, design, workable drawing, site and roadway layout, site grading
- Data collection, road condition surveys and updating of roads inventory in the districts
- Designed and managed the risk arise on construction
- Prepared the monthly progress reports and plans accordingly

#### **Civil Engineer / Community Irrigation Project**

**(Mar 2013- June 2015)**

- Supervise in developing the civil engineering plans and survey of irrigation system and structures
- Assisting in preparation of the contract documents, procurement process and opening bids and also assist in evaluation of contract bids and awarding the contract
- Design river training works and Irrigation canal structures
- Performed Quantity Estimation and Rate Analysis of hydraulic and other Civil Engineering structures.
- Site supervised as per project specification and drawings.
- Prepared daily inspection report and summary report of work quantities
- Assisted in lab testing and quality insured

### **Awards**

- "Graduate Research Assistantship" - 2018-2019

- **“Second Place”** - Poster Presentation in the **31st Rhode Island Transportation Forum**

### **Technical Skills**

- Proficient in
  - Drafting: AutoCAD, SAP2000- ( 3 years’ experience) ; Civil3D, Microstation (2 years’ experience)
  - Arc GIS/QGIS, GPS
  - Microsoft office
- Self-trained in HCS Traffic Software, HydroCAD, Hec Ras, GeoPak
- AASTHO ME Pavement Software, PaveXPress Software, LTTP online, Micro Paver, Quest, Proval Software
- Dynamic Shear Rheometer, Rolling Thin Film Oven Test, Pressure Aging Vessel, Bending Beam Rheometer, Asphalt Mixture Performance Tester, Gyrotory Compactor
- On-Board Sound Intensity (OBSI) Equipment- New Tire-Pavement Sound Measuring Instrument

### **Professional Training**

- FHWA-NHI-132040 Geotechnical Aspects of Pavement - US Department of Transportation
- FHWA-NHI-131050 Asphalt Pavement In-Place Recycling Techniques - US Department of Transportation

### **Research Experience**

- Pavement Management System, Mechanistic Empirical Pavement Design, Balanced- Superpave Mix Design, Recycled Asphalt Pavement Mix Design, Warm- Mixed Design

### ***Journal publications***

- **Shrestha, N.**, Lee, K., and Veyera, G. (2019). “Implementation of Warm Mix Asphalt contained Reclaimed Asphalt Pavement in Rhode Island.” (Paper submitted) for TRB 2019, Committee AFS80 - Stabilization of Geomaterials and Recycled Materials.

### ***Conference Publications, Exhibitions, Presentations***

- **Shrestha, N.**, Lee, K., and Veyera, G. (2019). “Investigation on Rheological Properties of Warm Mix Asphalt.” Proceedings of the US-Korea Conference on Science, Technology, and Entrepreneurship (UKC 2019), Chicago, August 14-16, 2019.
- Lee, K., **Shrestha, N.**, and Farahmarzi, M.(2019). “Balanced Mix Design for Sustainable Pavement with Warm Mix Asphalt.” 2019 International Committee on Pavement Technology (ICPT) on Transportation research, at Seri Pacific Hotel, Kuala Lumpur, Malaysia, 10th12th July 2019.
- Farahmarzi, M., **Shrestha, N.** and Schumacher, D. (2019)“Determining the Effect of Climate and Loading on Fatigue Cracking and Roughness of Asphalt Pavement Using InfoPave” proceeding on 2018–2019 T&DI/ASCE-LTPP International Data Analysis Contest.
- **Shrestha, N.**, Thomas, N. (2018). Recycling Infrastructures Assets and Reduction of Transportation System Greenhouse Gas Emission, The 31st Rhode Island Transportation Forum, October 26, 2018.
- **Shrestha, N.**, Veyera, G. (2018). Asphalt Mixtures with Crumb Rubber Modifier for Longevity and Environment, The 31st Rhode Island Transportation Forum, October 26, 2018.
- **Shrestha, N.**, Lee, K. W. (2017). Energy Harvesting and Advanced Technologies, The 31st Rhode Island Transportation Forum, October 26, 2018.

### ***Reference***

Jose Lima  
[jose.lima@dot.ri.gov](mailto:jose.lima@dot.ri.gov)  
 Manager at RIDOT Material Management  
 (401)-265-5282

Michael Byrne,  
[michael.byrne@dot.ri.gov](mailto:michael.byrne@dot.ri.gov)  
 Principal Civil Engineer  
 Personal (401) 641-8289  
 Office (401) 222-2524 x4135