

Monish Kurra

1040 Y ST Apt-328, Lincoln, NE 68508| monish.kurra@huskers.unl.edu Mobile: 402-975-9485

OBJECTIVE

Master's student in **Transportation Engineering**, seeking a challenging full-time position in Transportation field to work in a company which will give me a chance to use my knowledge and skills in best possible manner.

EDUCATION

Master of Science (**December 2016**)

University of Nebraska – Lincoln

Major: **Civil Engineering Specialization: Transportation**

Minor: **Statistics**

Bachelor of Technology (**September 2013**)

Vignan's University, India.

Major: **Civil Engineering**

Minor: **Humanities and Sciences**

SKILLS

◆AutoCAD	◆MicroStation V8i	◆VISSIM	◆Synchro	◆HCS	◆STAAD Pro V8i
◆VISSUM	◆MATLAB	◆Geopak	◆Civil 3D	◆R	◆ArcGIS
◆Revit	◆Trans CAD	◆C	◆C++	◆Html	◆CSS
◆Surveying	◆SAS 9.4	◆Microsoft Office Tools.			

Laboratory Skills

- Surveying skills like curve setting, leveling, and area determination
- Material testing like tensile, compressive and friction tests on different construction materials.

EXPERIENCE

Student Worker, January 2015 – December 2016

University of Nebraska – Lincoln

College of Architecture

- Managed wood workshop for architecture students under a supervision.
- Provided shop and safety training for architecture students.
- Monitored students in the workshop and assisted with their projects.
- Guided students with their project design drawings using AutoCAD.
- Responsible for maintenance of workshop machinery.

Highway Design Intern, October 2013 – May 2014

Skills2 Consultants, India

- Assisted in design of highway geometries (Horizontal and Vertical alignments) using AutoCAD/Civil 3D per IRC standards.
- Helped in the generation of typical roadway cross sections as per IRC Standards.
- Prepared detailed earthwork quantity and cost estimates.
- Assisted in preparation of land acquisition reports under the guidance of senior engineers.
- Assisted in preparing detailed project reports and finalized drawings.

Construction Engineer Intern, January 2013 – May 2013

Lanco Infratech Limited, Hyderabad, India.

- Supervised and reported day to day construction activity to senior engineer in daily and weekly reports.
- Worked at quality assurance and quality control department, tested and analyzed the purchased construction materials for quality and usability.
- Worked with the planning department, scheduled and made changes to the existing work plans as necessary.
- Prepared purchase quotes to procure construction materials while working with purchase and storage department.

Traffic Engineer Trainee, January 2012 – December 2012

UMTC Limited, India

- Responsible for collection of traffic volumes for major intersections, minor and major highways for detailed analysis.
- Assisted in the analysis of traffic survey like base year traffic demand, future traffic forecast by considering different influential factors.
- Assisted in preparation of traffic signage plans and road safety planning.
- Prepared detailed reports on performance measures like delays at intersections and travel time between major intersections.
- Trained in the preparation of signal timing plans, got familiarity with traffic simulation software.

ACADEMIC PROJECTS

Project, Highway Design

- Redesigned a Shadow Lake road, Blacksburg, VA. Using MicroStation (GEOPAK).
- Worked on existing horizontal and vertical alignment.
- Proposed new alignments according to VDOT standards.
- Prepared earthwork quantity and cost estimates for the project.
- Prepared a detailed project report document and finalized drawing plans.

Project, Traffic Engineering

- Collected traffic data at an intersection using different techniques and ITS technology.
- Prepared the signal timing plans for coordinated intersection.
- Worked with Synchro to prepare signal timing plans.
- Worked with VISSIM to do the microsimulation to analyze our timing plans for different traffic volumes.
- Revised timing plans were proposed to improve intersection performance.

Project, Analysis of Vehicle Performance measures using Bluetooth data

- Detection of vehicles using Bluetooth enhanced devices at intersections.
- Data collected were analyzed and performance measures of intersections were calculated.
- Suggestions were made to improve the performance of intersections.
- A simulation was done with actual vehicle volumes and Bluetooth data.
- For future work user commute patterns were studied to implement in GPS-based applications.

Project, Urban transportation planning

- 4 - step travel demand forecasting process was conducted on a medium-sized urban area with a population of 201,000 with 7 TAZs and 3 major intersections.
- Trip generation, trip distributions, mode choices and traffic assignments were calculated using Microsoft excel.
- The Level of services was calculated using Highway capacity software (HCS).
- Suggestions were made to improve the level of services for the links between TAZs and major intersections for future travel demand.