

MADHURI KOMIRISHETTY

HICKSVILLE, NY | 813-476-9471 | mkomiri@siue.edu | LinkedIn: www.linkedin.com/in/madhuri-komirishetty

Transportation Engineering | Traffic Simulation & Analysis | VISSIM | CORSIM | Synchro | HCS | Statistical Analysis | SPSS | MicroStation | In-Roads | Crash Data Analysis | CIVIL 3D | Spatial Analysis | ArcGIS | MS Office Suite

Solutions-oriented, analytical and loyal Civil Engineer with a master's degree in Transportation Engineering. Two years of experience in successfully leading/participating in multiple DOT sponsored research projects. Led several teams of graduate researchers through on-time and within-budget completion of projects by utilizing a hard work ethic and superior communication skills. Seeking to leverage a strong research background into an entry-level role in the traffic engineering or intelligent transportation systems (ITS) space.

EDUCATION

Master of Civil Engineering, Focus in Transportation Engineering, Southern Illinois University, Edwardsville (May 2017)
Bachelor of Technology in Civil Engineering, Jawaharlal Nehru Technological University, India (June 2014)

PROFESSIONAL EXPERIENCE HIGHLIGHTS

CONSTRUCTION PROJECT ENGINEER | Integra Technologies | DELAWARE | 2018

- ✓ Coordinating with superintendents and foreman to ensure project goals and expectations are met. Assist with schedule and coordinate with foreman and field personnel with daily schedules including materials, subcontractors, equipment, quality control, etc.
- ✓ Assist project planning to include project definition, scope, resources, and schedule from the job estimate.
- ✓ Assist and coordinate and delegate timely completion of traffic control plans, equipment mobilization, safety plans, haul road plans, erosion control plans, purchase ordering, job costing, and other duties as required.

STAFF ENGINEER I | Kaskaskia Engineering Group, LLC | BELLEVILLE, IL | 2017

- ✓ Perform engineering work like preparing construction plans, specifications, and cost estimates with the Transportation/Land Development Team under supervision of a project manager or senior-level team member.
- ✓ Assist with design and preparation of grading, drainage, and utility plan packages for a wide range of municipal and private infrastructure projects, cost estimating designs and performing quantity take offs.
- ✓ Duties may also include field activities such as site investigations or seasonal construction inspection, Data collection, analysis, and documentation. Develop drawings and visual aids.

RESEARCH ASSISTANT | Southern Illinois University | EDWARDSVILLE, IL | 2016

Illinois DOT Pedestrian Safety Project:

- ✓ Performed spatial and statistical analysis of over 25,000 pedestrian crashes from Illinois using SPSS to identify high-crash corridors and risk factors affecting injury severity.
- ✓ Partnered with the Illinois DOT in preparing the guideline document, 'Establishing Procedures and Guidelines for Pedestrian Treatments at Uncontrolled Locations and Controlled Locations'.

INTERN AS STRUCTURAL ENGINEER | Legend Consultants | INDIA | 2014

- ✓ Involved with the Design concepts required for the construction of a multi-storied building such as Design of Footings, Columns, Beams, Slabs and Staircases. Manual design and **STAAD PRO** software was used for the project.

INTERN AS GEO-SPATIAL ENGINEER | Geo-map Systems | INDIA | 2012

- ✓ Involved with the Digitization of Maps and Imagery, GPS observations in the field, creating GIS layers and generating queries from GIS database suitable for Engineering Applications.

ACADEMIC PROJECTS

- ✓ Interfaced with 3 research assistants to collect traffic volume data at 6 intersections along a major arterial in the city of Edwardsville. Conducted computer simulation of traffic operations using **VISSIM, CORSIM, Synchro and HCS** along the arterial to identify and resolve existing problems in traffic flow.
- ✓ A case study on “determination of effectiveness of vehicle-vehicle communication Technology”, **ITS**
- ✓ Design of a Roadway in an Urban area which included Horizontal and Vertical Alignments, creating cross-sections, cut and fill, drainage and super-elevation, profile view etc. using **AutoCAD Civil 3D**
- ✓ Signal optimization of an existing network with **Synchro** and finding the Level of Service, cycle length, intersection delay and v/c ratio. Compared and changes made where ever required.
- ✓ **Pavement distress identification** by locating different pavement cracks, measure, photograph and find out load associated and non-load associated distresses.
- ✓ Performed spatial and statistical analysis of over 25,000 pedestrian crashes from Illinois using SPSS to identify high-crash corridors and risk factors affecting injury severity. Partnered with the Illinois DOT in preparing the guideline document, '**Establishing Procedures and Guidelines for Pedestrian Treatments at Uncontrolled Locations and Controlled Locations**'.

ACTIVITIES

- ✓ Attended Institute of Transportation Engineers (ITE) Student Chapter meetings 2015
- ✓ Participated in the ITE Midwestern District Collegiate Traffic Bowl 2015
- ✓ Won International Student Excellence Award, SIUE 2017
- ✓ ITE Member 2015-Present
- ✓ Participated with keen interest in GIS training programme. 2013
- ✓ Working towards Engineering in Training Certification (EIT)