

# Sheshakumar Bindhu Bedare

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## CAREER OBJECTIVE

Collaborative engineer seeking a challenging full-time Transportation Engineer position in a reputable organization where I can use my knowledge, creative skills, and practical use of coursework for the growth and good market position of the company

## EDUCATION

**Cleveland State University** **Cleveland, OH** **Dec 2017**  
Master of Science in Civil Engineering **GPA 3.51**  
Related Coursework: Transportation engineering, Urban Transportation Planning, Traffic Flow Theory, Civil Engineering System Analysis, Highway Safety, Open Channel Hydraulics, Highway Engineering, Reliability of Structures, Highway Engineering, Air Pollution and Abatement, Simulation

**Sri Jayachamarajendra College of Engineering** **Mysore, India** **May 2015**  
Bachelor of Engineering in Construction Technology and Management **GPA 3.85**

## TECHNICAL SKILLS

Engineering tools: VISSIM, CORSIM, AutoCAD, HCS (Highway Capacity Software), HEC-Ras, Lingo, MicroStation  
Software Package: MS Office 07/10, Office 365, MS Word, MS Excel and MS PowerPoint

## EXPERIENCE

**Cleveland State University** **Cleveland, OH** **Aug 2016 – May 2017**  
Supplementary Instruction Leader and University Physics I Tutor

- Provided instruction to individual or small groups of students to improve academic performance, or prepare for academic tests and taught students study-skills, note-taking skills, and test-taking strategies
- Prepared lesson plans for tutoring sessions per students' needs and goals and assessed class material with students by discussing working solutions to problems, or reviewing worksheets or other assignments

**Cleveland State University** **Cleveland, OH** **Jan 2016 - Dec 2016**  
Graduate Teaching Assistant for Strength of Materials and Structural Analysis I

- Assessed and graded examinations, assignments and recorded grades
- Met with supervisor to discuss students' grades, completed required grade-related administration and alerted instructor of errors with assignments

**Maharanis College Project** **Mysore, India** **June 2015 - Dec 2015**  
Intern

- Managed parts of construction projects, oversaw building work and undertook surveys
- Checked technical designs and drawings to ensure that they were followed correctly, and guaranteed projects met budgets, specifications, timescales
- Liaised with clients, subcontractors, quantity surveyors and project manager and provided technical advice and solved problems on site
- Ensured health, safety, sustainability policies and legislation were adhered to

## CURRICULUM PROJECTS

### Simulating Roundabouts with PTV VISSIM

- Responsible for developing a realistic roundabout model with all geometric lanes, pavement markings, stop signs, yield points, conflict areas to test the impact of changes in traffic volume and 'what if' scenarios
- Simulation process was used to find an approach that delivered the best results

### A study of Zero energy building

- The study involved comparison of conventional building with traditional construction methods and a zero-energy building
- There was a total reduction of 83% in embodied energy and approximately 72% in carbon emission of zero energy building when compared to conventional building

## ACTIVITIES

- American Society of Civil Engineers, member
- Institute of Transportation Engineers, member
- International Workshop on "Construction Technology Management and Building Services" participant