

Mounika Mukundhu  
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## OBJECTIVE

To obtain Full-time position in Civil Engineering area in a reputed organization where my technical skills are utilized for the growth of the organization

## EDUCATIONAL QUALIFICATIONS

Lawrence Technological University, Southfield, MI January 2017- December 2018  
Master of Science in Civil Engineering GPA (3.56)  
Concentration: Structural Engineering

Jawaharlal Nehru Technological University-CBIT, Hyderabad, India September 2010-August 2014  
Bachelor of Technology in Civil Engineering GPA (3.52)

## SOFTWARE SKILLS

Microsoft office, Risa- 3D, STAAD Pro V8i, RAM, Revit, Civil-3D, AutoCAD, Mathcad.

## TECHNICAL SKILLS

- Familiar using Structural Design Codes: ACI 318, AISC-14 Manual, PCI, ASCE 7, American Wood Council NDS 2015 and SDPWS Codes.
- Design of Bridges as per AASHTO LRFD, ACI, and PCI design recommendations.
- Competent in designing and analyzing structural Elements of steel, concrete, and prestressed concrete.

## WORK EXPERIENCE

American engineers group LLC-Pennsylvania

March 2019-Present

Civil/structural designer

- Worked with the team of Structural Engineers involved in Designing of Concrete Abutments with Open Foundation for the bridge using PennDOT's ABLRFD program and prepared its Type, Size and Location plan drawings
- Review project plans, requirements, and specifications.
- Performed Site inspection of an existing Box culvert and prepared its Assessment Report proposing it to be reconstructed
- ADA ramps design according to Penn DOT specifications/slope calculations, and communicating with Penn dot and city offices regarding approvals.

MSJ INFRATECH Pvt Ltd. (India)

Junior Structural Design Engineer

July 2015 – November 2016

- Responsible for analyzing of beams, columns, slabs of both concrete and steel structures by using Staad pro and AutoCAD.
- Modeled Structure as per Architectural Plans and studied the various load combination effects on the structure
- Worked on various chimney designing and residential buildings.
- Structural material quantity take-off upon completion of design
- Performed the manual calculations to double check the results.
- Significant experience in building permitting and compliance

## GRADUATE PROJECTS

- Designed G+2 Multi-Story Timber Structure as per NDS provisions.
- Carbon Fiber Reinforced Polymer Prestressed Composite and Non-Composite T, I & Box Freeway Bridge Girder Designed as per AASHTO LRFD & MDOT Bridge Design Specifications.
- Designed Freeway Bridge Box Beam using External strengthening systems of CFRP Sheets.
- Condition Assessment of an MDOT Salvaged Side-by-Side Box Beams from a Kent County Road using NDT (Tests include Rate of Corrosion, Delamination, Concrete Strength Evaluation).
- Extensive Field Research on Development of Compressive Strength of the Concrete by using Maturity Method for Indoor & outside Field Conditions.
- Developed Construction Quality Control Plan for a Library Building in Detroit Downtown City.
- MODELED analyzed truss, frame, and constant stress cases analyzed and generated reports using abaqus.

## GRADUATE COURSEWORK

Advanced Structural Analysis, Advanced Steel Design, Advanced Concrete Design, Bridge Design, Prestress Concrete Structures, Design of Timber Structures, Concrete Engineering, Construction Quality, and Construction Safety, finite element analysis. GIS, Hydraulics open channels.

## WILLING TO RELOCATE

(Mounika Mukundhu)