

Rallabhandhi "Si" Saipavan

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Objective Highly motivated, hardworking civil engineer with experience in planning, designing, testing, and execution of civil structures and building materials. I am looking for a full time position in Structural and Civil engineering firms which would be challenging and help me grow professionally.

Education

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY, Rolla, MO May 2016
Master of Science - Civil Engineering (Structural Emphasis) GPA: 3.375/4.0

MATURI VENAKATA SUBBA RAO ENGINEERING COLLEGE, India May 2013
Bachelor of Engineering - Civil Engineering GPA: 3.85/4.0

Experience

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY Rolla, MO
Graduate Research Assistant Aug 2014 – May 2016

- Thesis:** Evaluation of Ultra-High Performance Concrete (UHPC) in Joints of Bridge Girders
- Evaluated the use of UHPC in continuity details of bridge elements when subjected to high-moment.
 - Investigated the effects of surface preparation of beams on flexural performance.
 - Tested the use of UHPC in Missouri Department of Transportation (MoDoT) end-girder detail.

- Graduate Teaching Assistant** (CE3116 – Construction Materials) Aug 2014 – May 2016
- Performed laboratory demonstrations on HMA (SUPERPAVE mix design), concrete, steel, masonry materials according to ASTM standards, analyzed the results, and instructed the students the importance of material properties.
 - Provided written and oral evaluation of assignments.

- SPATIAL CONSULTANTS Hyderabad, India
Junior Engineer May 2013 - Oct 2013
- Planned and designed various components of multistoried structures, including on-site construction management, quality assurance and quality control.
 - Provided progressive designs by incorporating clients request with estimated budgets, cost analysis and project specification documentation.

- MATURI VENAKATA SUBBA RAO ENGINEERING COLLEGE Hyderabad, India
Academic Project Leader Jan 2013 - Apr 2013
- Studied the Impact of Polluted lake on groundwater in surrounding areas to check the quality of water according to drinking standards set by WHO (World Health Organization) and gathered enough results to say the groundwater was safe to drink.

- LARSEN & TOUBRO METRO RAIL LIMITED Hyderabad, India
Internship June 2012 - July 2012
- Learned aspects of large scale designs, field construction, quality assurance, communicating with various branches for keeping everything on schedule to reach the set goals.

Technical Computer Skills

AutoCAD SAP2000 ABAQUS MS Office Suite CFS (Cold Formed Steel)
Sketch Up Response2000

Publications

- Rallabhandhi, S., Myers, J. J., “UHPC in Non-prestressed Reinforced Concrete (RC) Continuous Girder Sections for Bridge Girders,” First Interactive Symposium on UHPC, Des Moines, Iowa, 2016.

Honors, Volunteerism, Organizations, and Activities

- PCI Big Beam Competition 2016- 5th place Winner
- UHPC Beam Competition at 1st Interactive Symposium on UHPC (2016)-Winner, Best Poster
- Order of Engineer – Member
- SUPERPAVE and HMA aggregate – Proctor
- AUTODESK certified AutoCAD user
- Research on Concrete Applications for Sustainable Transportation (RECAST) – Member
- American Concrete Institute (ACI) - Member
- American Society of Civil Engineers (ASCE) – Member
- Precast Concrete Institute (PCI) – Member
- Bridge the Gap – Bridge competition, Srusthi 2012, MVSREC - Participant
- HMR – Presentation on Hyderabad Metro Rail Project 2012, MVSREC, CBIT – Presenter
- Familiar with Carpentry, Welding