

# Abhiram Tammana – MS, EIT

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Civil engineering graduate with strong technical, analytical and computer skills in structural engineering actively seeking full-time opportunities

## Education

- **Master of Science in Civil Engineering**, Major: **Structural Engineering** August 2011  
Purdue University, West Lafayette GPA: 3.04/4.0  
**Courses:**  
Advanced Reinforced Concrete Design, Advanced Structural Steel Design, Prestressed Concrete, Bridge Engineering, Earthquake Engineering, Finite Element Analysis, Structural Dynamics, Structural Mechanics, Numerical Analysis, Computing for Science and Engineering, Behavior of Metal Structures
- **Bachelor of Engineering**, Major: **Civil Engineering** June 2009  
Osmania University, India GPA: 3.6/4.0  
**Courses:**  
Reinforced Concrete Design, Design of Steel Structures, Structural Analysis, Matrix Methods & Numerical Techniques in Structural Analysis, Structural Engineering Design & Detailing (Concrete & Steel), Computer Applications in Structural Engineering, Mechanics of Materials, Concrete Technology, Foundation Engineering
- **Master Diploma in CIVIL CADD** May 2009  
CADD CENTRE, India  
**Courses:**  
AutoCAD, ArchiCAD, STAAD.Pro, MS Project

## Computer Skills

SAP2000, ETABS, RAM Elements, STAAD.Pro, RISA, ABAQUS, Microstation, AutoCAD, MathCAD, MS Office

## Experience and Projects

### MSCE Course Projects

- Structural Design proposal, “SR 168 Bridge over I-69” – Developed structural design of concrete and steel superstructure for a bridge crossing State Road 168 over I-69 according to AASHTO LRFD specifications in conjunction with INDOT proposed expansion of State Road 168
- “Parametric Study of RC Cantilever Beam” – Presented a detailed analysis of linear and non-linear behavior of a RC cantilever beam with respect to variation of material and geometric parameters under different loading conditions, rebar details and cross-sections using ABAQUS

### Research Assistant

Dec 2010 – June 2011

Provided a detailed report as part of the project – “Bridge Replacement on SR 43 over Burnett Creek” sponsored by INDOT with Prof. Jan Olek, Purdue University, focusing on the objectives :

- Performance study of the bridge for deflections
- Strain data analysis from the bridge girders to assess the behavior of the bridge under service loads

### Laboratory Assistant

Jan 2010 – Aug 2010

Assisted with the experimental setup of various research projects in Bowen Laboratory, Purdue University, through activities like:

- Instrumentation, real-time data monitoring, collection and analysis

### Laboratory Assistant

Sept 2009 – Dec 2009

Assisted the research group in the Construction Materials Laboratory, Purdue University, with studying the behavior of a repair material ‘Grancrete’ by:

- Performing a series of durability tests under different chemical environments on the quick-setting, high strength repair material

### BE Research Project

July 2008 – Apr 2009

Performed detailed analysis as part of a team on the research project - “Curing of Concrete-An Experimental Study”, was instrumental in achieving the objectives through:

- Investigation of the efficiency of different curing methods of concrete
- Comparison of curing methods in terms of compressive strength and cost

### Intern

May 2007 – Aug 2007

Worked closely with engineers of M/s. Maytas Infra (Ltd.) India, on a project for the client Reliance Gas Transportation Infrastructure (Ltd.), was responsible for:

- Structural analysis of slabs, beams, columns and foundation of electrical substation on the site for gravity loads using STAAD
- Preparation of structural details & drawings of different structures

### Professional Training

- Cal EMA Post-Disaster Safety Assessment Program (SAP) Evaluator Training, organized by Earthquake Engineering Research Institute (EERI) at Purdue University

### Student Delegate

- ‘International Conference on Advances in Concrete & Construction (ICACC 08)’, Hyderabad, India
- ‘National Workshop on Fire Safety in Buildings’ organized by **Indian Institute of Information Technology, Hyderabad & Indian Concrete Institute (ICI)**
- ‘National Seminar on Engineered Concretes’ organized by **Indian Concrete Institute (ICI)**
- ‘National Seminar on Recent Trends and Advances in Fast Track Construction of Bridges’ organized by **Indian Institute of Bridge Engineers (IIBE)**

### Awards

- Received Best Project Award for BE research project titled "Curing of Concrete - An Experimental Comparative Study"

### Extracurricular Activities

- *Human Excellence Workshop* – Trained in organizational & leadership skills, interpersonal skills, mind management skills, art of self improvement and personality development at the Vivekananda Institute of Human Excellence, Hyderabad, India
- *Event Organizer* – Vasavi College of Engineering: Organized and supervised all the events as part of annual technical fest “ACUMEN ‘09”
- *Student Editor* – Editor in-charge of college annual magazine, “Technocrats”
- *Student Convener* – Institution of Engineers (India) Students’ Chapter: Organized seminars, technical presentations and many other related events
- *Student Recruitment Coordinator* – Vasavi College of Engineering: Coordinated with the Human Resources Department for inviting companies and organizing recruitments