

# Sai Venkateswarlu Gonuguntla M.S., E.I.T

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Two strong years as structural designer working progressively with challenging cases of **structural design** including **rehabilitation, renovation of concrete and steel structures**. Capable of working independently with minimum supervision. Professional, energetic and motivated individual who performs effectively in challenging environments.

## Education

- **Master of Science in Civil Engineering (Structural Major)** **2015- 2017**  
**GPA: 3.83/4.0**  
Oklahoma State University, Stillwater, USA  
Course works: Plastic Steel Design      Advanced Steel Design      Advanced Concrete Design  
Bridge Design      Timber Design      Masonry Design & Analysis  
Structural Dynamics      Advanced Strength of Materials      Infrastructure Cond Ass & Design
- **Bachelor of Technology in Civil Engineering (Structural Major)** **2010- 2014**  
**GPA: 3.07/4.0**  
Gandhi Institute of Technology and Management University, Visakhapatnam, India

## Professional Experience

### Graduate Teaching Assistant August 2015 - Present

Oklahoma State University, Stillwater, USA

Subject: **Strength of Materials**

- Organize discussion classes for undergraduates.
- Conduct office hours, grade papers and proctor tests

### Jr. Structural Engineer May 2014 - July 2015

Enstrectura Consultants, Bengaluru, India

- Designed an overhead water tank with capacity of 3.2 million gallons (**\$1.5 Million government project**).
- Designed **40ft** long X **15ft** tall landmark structure for **Kempegowda International Airport**, Bengaluru.
- Designed **5** concrete residential buildings and a framed chimney support structure.
- Worked on **Non-Destructive Testing**, stability analysis.
- Performed **Rehabilitation and Restoration** techniques to strengthen steel structures.
- Conducted **site visits** to inspect fabrication details and prepared reports

### Engineer Intern 2013 - 2013

M. S. Rammaya Constructions & Developers, Visakhapatnam, India

- Inspected and studied Multi-purpose auditorium construction and Modern techniques in slab construction.
- Trained on working of batching plant and performed quantity surveying.

## Academic Projects

### Truss Framed Steel Structure

- Designed two-story 3D BIM model using AutoCAD, STAAD Pro and RAM connections.
- Followed ASCE-7-10 to perform load combinations to determine steel section properties and developed Excel sheets that comply with AISC specifications.

### Prestressed Concrete Girder Design

- Analyzed vehicle loads and combinations on girders using CALTRANS.
- Designed type-IV prestressed concrete girders in accordance with AASHTO LRFD specifications to replace existing steel girders.

## Technical Skills

### Design Software:

STADD-PRO | RISA | Revit | Mat lab | ETABS| AUTO CAD | Microsoft office |SAP 2000 | MicroStation | MathCAD

### Practiced Design Codes:

AISC | AITC |ASCE-7|ACI 318-14 | BIS | IRC | ASTM | AASHTO | NDS Wood Design

## Leadership Positions

- Vice-President** at Rotaract Club, Oklahoma State University **2015- Present**
- Mix Design Head** Concrete Canoe Team, Oklahoma State University **2016-Present**
- Member** Oklahoma Structural Engineers Association **2017-Present**