

# Kiran Ande, E.I.T

**Objective:** Seeking a Full-time opportunity in the field of Structural Engineering

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## Education

<b>Georgia Institute of Technology</b> , Atlanta, GA	Anticipated Graduation- Dec'18
• Master of Science in Civil Engineering, concentration in Structural Engineering	GPA: 3.63/4.0
<b>Indian Institute of Technology Madras</b> , India	May '17
• Bachelor of Technology in Civil Engineering	GPA: 3.9/4.0

## Skills

**Coursework:** Structural Analysis, Strength of Materials, Earthquake Engineering, Structural Dynamics, Design of Concrete Structural Systems, Pre-stressed Concrete Design, Rehab of Structures, Design of Steel Structures, Bridge Engineering

**Design Codes:** ASCE 7-10, AISC 360-16, ACI 318, AASHTO, IBC 2012, NDS 2018, AISI S100-16

**Software:** ENERCALC, SABRE 2, GTSTRUDL, Bentley STAAD Pro, SAP 2000, CSI Bridge, Dlubal SHAPE THIN, Visual Analysis, AutoCAD, Autodesk Revit, MATLAB, MASTAN, MathCAD

## Professional Experience

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**Graduate Assistant: Analysis and Design of Deployable Solar Panel System** Aug'18- present

- Created AutoCAD drawings of the system at various deployed positions
- Conducted 3D analysis in SAP2000 for dead and wind loads at each deployed stage
- Provided economical design of each cold formed steel member using AISI and Clark Dietrich Manuals

**Avila Structural Engineering: Structural Engineering Intern, Thousand Oaks, CA, USA** May '18- July '18

- Assisted PM with Site Visits, Plan Reviews, Renovations and Engineering Calculations
- Drafted structural plans of adaptive use of residential buildings using AutoCAD
- Designed wooden beams, posts, joists, shear walls & holdowns, anchor bolts as per NDS 2018 and ASCE 7-10

**EON Designers & Engineers; Structural Engineering Intern, Hyderabad, India** May '16- July '16

- Validated STAAD Pro software for seismic analysis of reinforced concrete structures with analytical methods
- Designed RC buildings using Excel spreadsheets and STAAD Pro for gravity, lateral and seismic loads
- Performed comprehensive **study of retrofitting techniques**, structural drawings of various construction work

**National Center for Safety of heritage Structures, Chennai, India** May '15-July '15

- Performed **condition mapping** to identify deterioration in the structural elements
- Proposed economical recommendations to improve the life of the structure

## Publications

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**Ande, K.** and Sengupta, A.K., "*Effect of Large Balconies on the Seismic Design Forces in a Typical Multi-storeyed Reinforced Concrete Building*", ICI Journal, Indian Concrete Institute, Vol. 18, no. 4, January – March 208, pp. 29-37

## Projects

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**Optimized design of a transfer girder with non-prismatic section** Feb '17- Apr '17

- Designed a non-prismatic girder with stiffeners by optimizing the maximum amount of steel using SABRE 2
- Created generic Mathcad sheers as per the AISC 360-16, Design Guide 25 to simplify the design process
- Prepared cost-estimation sheets to constantly monitor the price of the girder with various changing parameters

**Steel Pedestrian Bridge Design** Oct '17- Dec '17

- Designed overhanging pedestrian bridge of span lengths 30 ft and 32 ft for gravity, wind and seismic loads
- Met several architectural and service load deflections criteria's according to IBC 2012 and performed modal analysis
- Provided minimal cost design with only 2 moment resisting connections and simple foundation design

**Steel Girder Bridge Design** Oct '17- Dec '17

- Designed two-span continuous curved and skewed I-girder bridge using CSI Bridge as per AASHTO LRFD provisions
- Considered Constructability, Strength, Service, Fatigue and Fracture limit states
- Delivered economical design by considering non-prismatic girders sections and total cost estimation sheets

**Additional Projects:** Anchoring FRP, Architectural Design of Public Library, Smart Belt, Underwater oil well capping