

NAVANEETH KRISHNA SREEDHARA

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OBJECTIVE To be part of an organization where my knowledge and skills will be best utilized for the growth of self and the organization.

EDUCATION □ **State University of New York at Buffalo** Aug 2017-Feb 2019(Expected)

Master of Science, Civil Engineering

Specialization: Structural and Earthquake Engineering

Relevant Coursework: Design of Steel Highway Bridges, Pre-stressed Concrete Bridge Design, Finite Element Structural Analysis, Advanced Concrete Structures Design, Structural Dynamics and Earthquake Engineering I, Advanced Foundation Design

□ **JSS Academy of Technical Education, Visvesvaraya Technological University** Aug 2010-Jun 2014

Bachelor of Engineering, Civil Engineering

Relevant Coursework: Strength of Materials, Structural Analysis I&II, Design of Steel Structures

ACADEMIC PROJECTS

- **Determining the Effects of Strand Diameter on the Design parameters of Pre-Stressed Concrete Bridges**
Designed and analyzed a simply-supported Pre-Stressed Concrete Bridge subjected to loads for both Service and Strength Limits for 0.5in., 0.6in. and 0.7in. diameter pre-stressing strands and PCEF girders as per the AASHTO LRFD and FHWA standards and specification. Live Load Analysis was performed using SAP 2000.
- **Finite Element Analysis of Pedestrian Arch Bridge subjected to El-Centro Earthquake**
Modeled and analyzed a simply-supported pedestrian arch bridge using Finite Element Analysis tool-ABAQUS. Analysis results showed us, the modeled bridge did not satisfy the AASHTO requirement for a safe and comfortable pedestrian movement over the bridge. It was concluded that the stiffness of the structure had to be increased.
- **Design of Single-span Steel Bridge- Request for proposal (RFP) for bridge replacement of I-81 Northbound and Southbound over State Route 80 in Tully, NY**
Determined and designed the geometry of the bridge, maximum girder depth, girder type, loads and load distribution (live loads including NYSDOT permit vehicle was analyzed using SAP 2000), and load ratings based on the available data.
- **Foundation design for Route 73 Bridge, Irvine, CA Design Section S90-12 operated by San Joaquin Hills Transportation Corridor (SJHTC)**
Design Section S90-12 is a segment of SJHTC that spans over the San Diego Creek (Station 1173+00 to Station 1193+00). Based on SPT, CPT and laboratory soil test results, various components were designed for the given loads. The project included– design of foundation (Pile), the design of embankment, ground improvement, and design of MSE retaining wall. Slope stability was checked using SLIDE 7.0 software.
- **Design of Two-Span Continuous Steel Composite Structure (In Progress)**
- **Design and Analysis of components for the three-story special moment resisting framed structures (In Progress)**
- **Literature Review**
 - Effect of Fires on the response of Reinforced Concrete Components
- **Determining the Correlation between Standard Penetration Test and California Bearing Ratio (Under-graduate)**
Dynamic Cone Penetration Test (DCPT) was used to introduce the relationship between Standard Penetration Test (SPT) and California Bearing Ratio (CBR). Soils from various locations (scattered in and around Bengaluru, India) were chosen to perform SPT, DCPT, CBR, and other laboratory tests to determine soil properties and come up with the relationship.

SOFTWARE PROFICIENCY AutoCAD, REVIT, STAAD.Pro, SAP2000, ABAQUS, CSiBridge, XTRACT, MATLAB, Mathcad, Microsoft Office

WORK EXPERIENCE **Prestige Estates Projects Ltd. Bangalore, India** July 2014- Jul 2016

Designation: *Site Engineer- Quality Assurance and Quality Control(QA/QC)*

Project: **Prestige Lakeside Habitat**

Key Responsibilities:

Studying the drawings (reinforcement, formwork and elevation drawings)

Preparing bar-bending schedule, sampling, and testing of materials as per the Intended Test Plan (ITP).

Inspection and approval of activities on the field.

Documentation and Preparation of Weekly Progress Report and Monthly Quality Report.

Organizing quality meetings to discuss the lacuna at the site, if any.

CODES ACI 318, AASHTO LRFD, IS 800, IS 456, IS10262

PROFESSIONAL MEMBERSHIP Will earn my EIT Certification by the end of December (FE Exam on 12-26-2018).

EXTRA-CURRICULAR ACTIVITIES ASCE (Student Member) & ACI (Student Member) (Active member)
Senate (Graduate Student Association, CSEE at University at Buffalo) (2017-2018)

[● https://www.linkedin.com/in/navaneeth-krishna-sreedhara-82930488/](https://www.linkedin.com/in/navaneeth-krishna-sreedhara-82930488/)