ADITYA JETHVA

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EDUCATION

Master in Structural Engineering **Jan 2020 - Dec 2021**

University of Texas at Arlington - Arlington, TX

Relevant Courses: Advanced Concrete Design| Advance Steel Design| Prestressed Concrete |Finite Element| Temporary Structures | Structural Steel Design | Structural Timber Design | Structural Masonry Design | Building Information and Modeling| Advanced Mechanics of Materials

Bachelor of Civil Engineering **Aug 2014 – May 2018**

Gujarat Technological University – Gujarat, India

Relevant Courses: Structural Analysis| Design & Drawing of Reinforced Concrete Structures| Design and Drawing of Steel Structures

SKILLS

Software & Tools : Risa 2D & 3D, PLS POLE, AutoCAD, REVIT, SAP 2000, ETAB, STADD Pro, SAFE, PG Super, ABAQUS

Codes Knowledge : AASHTO LRFD, ACI 318:19, AISC, NDS Wood Design, TMS, ASCE 7-16, IBC, TIA

Technical Skills : Ability to read blueprints, Ability to perform inspections, Seismic Analysis, Project Oversite, Safety Awareness, Proposal Development, Team Management.

WORK EXPERIENCE

Structural Design Engineer **Nov 2022 – Jun 2023**

Tower Engineering Solutions **Irving, TX**

- Applied structural knowledge to analyze steel structure based on site parameters such as ultimate wind speed, exposure categories, topographic categories and seismic parameters defined in IBC, AISC and TIA-222 codes.
- Perform hand calculations of steel connections such as U-Bolt connections, Collar Mount Connections and Flange Connections as per AISC code specifications.
- Model steel structures in RISA-3D and company proprietary software using information provided from the field mapping and/or manufacturer drawings and design specifications.
- Interacting with the client and generating final Mount Analysis Reports, Antenna Positioning Diagrams and Cost Estimates.

Design Engineer **Feb 2022 – Nov 2022**

Sabre Industries **Alvarado, TX**

- Design steel structures focusing on customer specifications, fabrication, industry codes & standards, resources, procurement, shop and field tolerances, technical & manufacturing limitations, and project milestones.
- Optimize designs, methods, and materials by performing critical analysis of manufacturing related issues.
- Develop, review, and update technical & process flow charts, operation procedures, RCCA (Root Cause and Corrective Action) assignments.

Junior Civil Engineer **May 2018 - Dec 2019**

Maruti Buildcon Limited **Ahmedabad, India**

- Designed and analyzed high rise concrete structures with limit loading conditions using STADD Pro and spreadsheets.
- Designed conventional reinforced concrete slab, grade beams and different types of foundations with the help of ETABS.
- Executed design and prepared analysis report of foundation systems according to different geological conditions in STAAD PRO.
- Collaborated with Senior engineers to gain an in-depth understanding of the construction procedures.

Bridge Engineering Intern **Aug 2017 – Apr 2018**

Ranjit Buildcon Limited **Ahmedabad, India**

- Performed load rating of the concrete bridges based on Indian Standard Specification.
- Support BIM/CAD team to achieve consistent workflow and better document handling.

ACADEMIC PROJECTS

Design of SH288 Toll Lane Bridge (Prestressed Concrete)

- Designed 3 out of 54 spans of a TxDOT state highway project using PG Super software program.
- Provided shop drawings using MicroStation.

Design of Office building (Advanced Steel Design I)

- Analyzed and Designed 6 story steel building by providing detailed hand calculations of critical slabs, beams, and columns by using **AISC 15th Edition, IBC.**
- Designed various types of moment connections in steel bridges such as simple shear connections, column base connections, bracing connection as per **AISC 15th Edition**.

Design of Residential Building (Structural Timber Design)

- Analyzed and designed all components of timber residential house such as beam, column, studs, diaphragms etc. as per **NDS wood design package 2018 and ASCE 7-16** using Staad Pro software.

Design of High-Rise building (Advanced Concrete Design)

- Designed seven-story office building and analyzed various components such as beam, column, slab, and shear walls using E-TABS as per **ACI318:19 and ASCE 7-16.**

CERTIFICATION AND ACHIEVEMENTS

- Member of American Society of Civil Engineers
- Member of American Concrete Institute
- Member of American Institute of Steel Construction
- Member of Structural Engineering Institute