

# Vishnu Sai Gaikadi

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Design and Analysis | Scheduling | AutoCAD | Revit | Staad-pro | Estimation | ETABS | Primavera | MS Projects

## Construction Engineer / Project Manager / Cost Estimator

### Education:

- The University of Texas at Arlington, Arlington, TX:** **Anticipated May 2024**
  - Master of Science in construction engineering and management **GPA: 3.11**
  - Relevant Coursework:** Construction cost estimation, Construction planning and scheduling, Construction materials, Construction Finance, Construction methods and field operations, Construction sustainability, Advance project control, Risk management, Structural timber design and Temporary structures.
- Sathyabama University, India:** **May 2022**
  - Bachelor of Engineering in Civil Engineering **GPA: 3.14**
  - Relevant Coursework:** Design of steel structures, Fluid Mechanics, cost estimation, Surveying, Design of Reinforced concrete structures.

### Technical Skills:

- Software and Tools:** AUTO CAD, Microsoft Excel, RIVIT, Primavera, RS Means and Bluebeam.
- Analytical Skills:** Planning project strategies, handling unexpected issues, and solving other problems arising in the construction project, estimating the cost, materials, and time to complete the project.
- Business Skills:** Address budget matters, and coordinate, inspect the construction activities of workers, negotiate on cost matters, and established an effective relationship with staff.
- Communication Skills:** Clear communication with construction workers and explain complex information, discuss technical details with other building specialists as well.

## Work Experience

### Site Engineer | GSV Constructions, Hyderabad, Telangana, India

June 2021 - Dec 2021

- Highly proficient in accurately assessing and verifying resource quantities essential for the construction of 2BHK buildings, ensuring the availability of accurate and adequate supplies for seamless project execution.
- Experienced in hands-on learning activities related to surveying, hauling, and cutting processes, complemented by conducting comprehensive lab tests including compression and soil tests, ensuring adherence to quality standards and project specifications.
- Skilled in effectively managing and overseeing various stages of construction projects, from initial resource assessment to quality control measures, contributing to the successful completion of projects within designated timelines and budgetary constraints.

## Project Experience

### Equipment Selection for Raw Water Pipeline Project

- Methodically selected and allocated equipment including dozers, loaders, scrapers, and trucks, based on meticulous production calculations and project-specific route mapping, optimizing efficiency and resource utilization for successful project execution.

### Cost Estimating, Planning and Scheduling For Single-Store Residential Building Heritage Ranch (California)

- Utilized advanced Critical Path Method (CPM) calculations to meticulously develop precise activity schedules and comprehensive resource allocation plans, ensuring efficient project completion within specified timelines.
- Leveraged PRIMAVERA P6 for comprehensive planning and scheduling, while employing cost estimation techniques using RS MEANS data and previous project analysis in MS Excel, ensuring accuracy and cost-effectiveness in project execution.

### California High Speed Rail – Risk Analysis

- Conducted thorough risk assessments using the Risk Breakdown Technique, framing precise risk statements.
- Utilized decision trees, PERT, and Bayesian theorem for accurate risk analysis and mitigation.

### Timber Design for Commercial Mall

- Designed timber structure for commercial mall using ETABS and RISA, calculating loads for precise structural design.

### Structural Design of Formwork and Temporary Structure for Box Girder Bridge

- Spearheaded the design of temporary structures for scaffoldings and temporary formwork for in-situ casted box girder bridges, meticulously considering factors such as the workability of fresh concrete pressure and live loads of laborers in load combinations.

### Effect of Crumb Rubber Powder on Vg-30 Bitumen

- Aimed to boost bitumen sustainability by incorporating crumb rubber powder, reducing environmental impact while enhancing performance. Addition of 5%-10% rubber powder yields superior results.

## Leadership

### Technical fest:

- Participated in the technical fest at Satyabama University, contributing to the design of route maps for each floor of the Department of Civil Engineering building using AutoCAD. My role involved AutoCAD design.