BHARGAV BUNGA

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PROFILE SUMMARY

Civil Engineer with expertise in directing projects, collaborating with design teams, and supervising construction. I am skilled with AutoCAD, Civil 3D, STAAD.PRO, MicroStation, and Excel for tracking and design reviews. Skilled in collaborating with engineers and subcontractors to fulfill deadlines and maintain high standards. I am currently working as a Field Engineer, where I am learning advanced project management, leadership, site coordination and quality control techniques. Strong problem-solving, communication, Time management and leadership skills, with a focus on efficiency, safety, and cost-effectiveness. Looking for a position where I can use my skills to contribute to projects and move forward in the construction industry.

EDUCATION

Master's in civil engineering | University of New Haven | West Haven, USA **Aug 2022 - May 2024**
Key Courses: Project Management, Estimating & Scheduling, Laws and claims, Foundation Design, Building Information Modelling.
Bachelor's in civil engineering | SRK Institute of Technology | India **Aug 2018 - May 2021**
Key Courses: Design and Drawing of Reinforced Concrete Structures, Concrete Technology, Structural Analysis, Quality Control.
Diploma in Civil Engineering | Dhanekula Institute of Engineering and Technology | India **Aug 2015 – May 2018**
***Key Courses*:** Surveying, Transportation Engineering, Prestressed Concrete, Computer Aided Drafting, Environmental Engineering

KEY SKILLS

Project Management | Quality Assurance | Construction Quality Control | Budget Management | Excel for Project Tracking | Team Collaboration | Subcontractor Coordination | Problem-solving | Time Management | Communication Skills | Site Supervision | Risk Management | Stakeholder Reporting | Effective communication | Design Review | Contract Management | Cost Estimation | Documentation and Reporting | Project Scheduling | Conflict Resolution | Site Safety Management | Procurement Management.

SOFTWARE PROFICIENCY

AutoCAD 2D & 3D | STAAD Pro | Primavera P6 | BIM | MicroStation | Microsoft Office.

PROFESSIONAL EXPERIENCE

Field Engineer – Verex Engineering LLC | Sandy, Utah **Jun 2024 – Present**

- As Field Engineer at Verex Engineering LLC, performed variety of tasks to support design, analysis, and plan production. Oversaw a project budget of 10M across 700,000sq.ft. Used AutoCAD, MicroStation, for design reviews and Excel for Project tracking.
- Collaborated with a team of 5+ engineers to collect, organize and evaluate data needed for calculations and design. Participated in team meetings to address quality issues and share updates. Submitted daily reports to senior management, highlighting progress.
- Worked closely with design team and technicians to ensure design standards were met on-site. Provided clear instructions, checked progress, and addressed any technical issues. Coordinated with subcontractors to improve workflow, ensuring prompt completion of tasks, keeping effective communication. and adherence to project timelines.
- Coordinated with 10+ subcontractors to ensure design standards and field investigations were followed on site, providing guidance and resolving over 20 issues to keep the project on track. Actively managed timelines and quality standards to avoid delays.
- Monitored the progress of field investigations, ensuring tasks were completed on time and met project specifications across 700,000 sq. ft. Kept clear communication, addressing over 25 concerns promptly to ensure smooth project execution.

Project Engineer - Sree Vishnu Builders | Vijayawada, India **Sep 2021 – Jul 2022**

- As Project Engineer at Sree Vishnu Builders, managed the construction of a residential building project with a budget of 4M covering 200,0000sq.ft. from foundation to superstructure completion. Used AutoCAD, STAAD. PRO, for design and Structural analysis.
- Led foundation work, retaining wall construction, sub structure and superstructure execution, ensuring compliance with engineering standards, and project specifications while coordinating with contractors, checking site progress, and maintaining quality control.
- Collaborated with a team of 6+ engineers to collect, analyze, and use site data for design optimization and construction planning.
- Worked closely with 10+ contractors, subcontractors, and labour teams to check progress, resolve technical challenges, and keep quality control. Conducted daily inspections to ensure proper material usage, structural integrity, and following to safety regulations.
- Submitted daily reports to senior management, highlighting progress, quality control measures, and potential risks.
- Completed work on time and within budget by closely coordinating with subcontractors, ensuring tasks were performed according to quality standards, and resolving any issues quickly. Regularly tracked progress and adjusted as needed to meet deadlines.

ACADEMIC PROJECTS

Study on Partial Replacement of coarse aggregate with granite waste and fine aggregate with Rock sand:

- The project aimed to explore cost-effective alternatives for conventional concrete by partially replacing coarse aggregate with granite chips and fine aggregate with rock sand**.** These materials offer sustainable alternatives for concrete.
- M30 grade concrete was designed, and experiments were conducted with varying replacement percentages (5,10,15%). Compressive strength tests at 7, 14, and 28 days showed that 10% replacement provided improved strength, while 15% showed a slight reduction.
- Project Strives for evaluating concrete's strength, cost effectiveness, and environmental impact. The study concluded that using rock sand and granite chips is a workable alternative to river sand and coarse aggregates, promoting sustainability and cost efficiency.

Design and Estimation of Flexible pavement by California Bearing Ratio (CBR) method based on traffic volume:

- Conducted CBR test to evaluate subgrade soil strength for pavement design, involving soil sample preparation, compaction, soaking, penetration testing, and result analysis. Ensured proper execution of each step following standard testing procedures.
- Analysed test results to determine pavement thickness requirements, comparing CBR values with expected traffic loads and soil conditions. Utilized findings to recommend optimal pavement design, improving structural stability and cost efficiency.

CERTIFICATIONS & HONOURS

ACI Concrete Field Testing Technician – Grade 1 | CMIT - The Construction Manager-in-Training Occupational | Safety and Health Administration (OSHA 30)