

Sai Mani Venkata Ram Inavolu

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PROFILE SUMMARY

Motivated and detail-oriented civil engineering graduate with over 2 years of hands-on experience in construction inspection, management, and site supervision. Experienced in overseeing residential and commercial projects, including apartment complexes, office buildings, and mini shopping complexes. Skilled in conducting site surveys, ensuring quality control, managing safety protocols, and ensuring compliance with industry regulations. Proven history of supporting construction projects from start to finish while maintaining high standards of safety and quality

EDUCATION

- **Master of Science in Civil & Environmental Engineering** | University of New Haven | New Haven, CT, USA **Aug 2022 – May 2024**
Key courses – Foundation Design & Construction, Construction Estimating & Scheduling, Advanced CAD, Construction Inspection.
- **Bachelor's in Civil Engineering** | RISE Krishna Sai Gandhi Group of Institutions | India **July 2016 – Sep 2020**
Key courses – Structural Analysis, Design & Drawing, Surveying, Fluid Mechanics, Transportation, Traffic Engineering.

SKILLS

Construction drawing | Budgeting | Jobsite planning | RFI responses | Project management | Bid proposals | Quantity takeoff | Daily reports | Cost analysis | Procurement management | Pre-construction | Risk management | Change orders | Estimating | Site inspection | Quality control | Residential and commercial construction | Foundation design & construction | Construction scheduling | Client coordination | Labor and trade management | Contract administration | Collaborative problem-solving | Effective communication | Time management | Coordination | Team leadership.

SOFTWARE PROFICIENCY

AutoCAD | Revit | Civil 3D | Bluebeam | Microsoft Office Suite | Primavera P6 | Microsoft Project | Navisworks | eTakeoff.

EXPERIENCE

Project Engineer | Shahrish Shuvo Engineering, New York, USA

Feb 2025- Present

- Perform AutoCAD drafting for fire protection, HVAC, and mechanical inspection reports.
- Conduct fire protection inspections, HVAC inspections, and mechanical inspections to ensure compliance with safety and regulatory standards.
- Carry out comprehensive building inspections and prepare detailed inspection reports.
- Collaborate with site teams to ensure construction meets quality and safety standards.
- Assist in coordinating with clients, contractors, and project stakeholders to resolve design and construction issues promptly.
- Provide expert guidance in civil engineering services, ensuring project success through efficient design and execution.
- Conduct detailed inspections of retaining walls to ensure structural integrity and compliance with building codes.
- Oversee construction activities, ensuring projects adhere to plans, specifications, and safety standards.
- Perform specialized inspections to verify compliance with regulatory requirements and construction quality standards.
- Conduct mandatory periodic inspections of parking structures in New York City to assess structural condition and safety.
- Monitor vibrations during construction activities to prevent structural damage to adjacent properties and ensure compliance with safety protocols.
- Conduct facade inspections to identify potential hazards, ensuring compliance with NYC Local Law requirements.
- Assess building conditions through thorough inspections and provide recommendations for maintenance and structural improvements.

Assistant Project Coordinator | Sunshine Developers, India

Jun 2020 – July 2022

- Managed the construction of a residential apartment project with a total area of 130,000 sq. ft. and a \$22M budget. Developed and implemented a cost-tracking dashboard in Microsoft Excel to monitor expenses and track project progress.
- Coordinated with 10+ contractors, suppliers, and engineers to quickly resolve on-site issues, preventing delays. Collaborated with all teams to maintain safety standards, reducing risks by 30% during construction. Ensured the project was completed on time and met all quality standards.
- Supervised on-site construction for a residential apartment project, collaborating with a team of 9+ professionals to ensure adherence to engineering standards, quality, and schedules. Managed daily operations, coordinated resources, and maintained a cost-tracking dashboard to monitor expenses and project progress. Coordinated safety compliance, resource management, and timely project completion.
- Collaborated with subcontractors and vendors to ensure timely delivery of materials and services, resolving issues to prevent delays. Coordinated efforts to maintain quality and meet project requirements, ensuring the project stayed on schedule and within budget.
- Managed project timelines, budgets, and resources for a residential apartment project, overseeing the quality control process to ensure all work met required standards. Coordinated efforts to keep the project on track and within budget while maintaining high-quality results.
- Supervised labor teams, focusing on resource allocation, adherence to safety protocols, and timely project delivery within allocated budgets.

PROJECTS

Partial Replacement of Sand by Iron Ore in Concrete

- Conducted experimental research on replacing sand with iron ore in concrete mixtures (10% to 40%), testing compressive strength and durability at 7, 14, and 28 days using a Universal Testing Machine.
- Demonstrated the feasibility of iron ore as a sand substitute, highlighting potential cost savings and sustainability benefits in construction materials.

Guilford Ramp Extension – Primavera P6

- Utilized eTakeoff software for precise quantity estimation and takeoff and developed a detailed project schedule using Primavera P6.
- Improved project tracking and resource management, ensuring timely completion by identifying delays and implementing schedule adjustments.

Design of G+3 House – AutoCAD 2022

- Designed a multi-story residential building in AutoCAD 2022, creating detailed architectural drawings, including floor plans, elevations, rebar details, and footing layouts.
- Ensured compliance with local building codes and optimized space utilization with efficient structural and furniture layouts.

MEP Planning and Clash Detection – Revit & Navisworks (2023)

- Designed and coordinated Mechanical, Electrical, and Plumbing systems in Revit, performing clash detection in Navisworks to resolve design conflicts.
- Minimized construction issues and improved design accuracy by collaborating with multidisciplinary teams for seamless system integration

PROFESSIONAL DEVELOPMENT

- Completed LinkedIn Learning Certification in Construction Management, strengthening expertise in project planning, cost control, and contract management.
- Participated in Concrete Testing and Preparation Course as per Indian Standards, gaining direct experience in material testing, mix design, and quality control.
- Proficient in SketchUp, developing 3D modeling skills for architectural and construction design visualization.
- Proficient in AutoCAD and Revit, enhancing proficiency in 2D drafting, 3D modeling, and BIM-based design workflows for architectural and structural projects.
- Skill full in Steel Inspection, ensuring quality control, compliance with design specifications, and adherence to safety standards in reinforcement and structural steelwork.
- Developed expertise in preparing comprehensive work progress reports, detailing milestones, challenges, results, and recommendations, ensuring accurate and timely project documentation and submissions to stakeholders.

CERTIFICATIONS

Occupational Safety and Health Administration (OSHA 30) | Construction Manager in Training (CMIT) | FHWA-NHI-134108D Certification in Plan Reading: Erosion and Sediment Control Plans | Primavera P6.

ELIGIBILITY

Eligible to work in the United States of America with valid work authorization | Willing to Relocate.
