

Ramesh Govindaswamy

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Project Engineer/ Civil Engineer

EDUCATION:

- University of Texas, Arlington, TX:** Master's of Engineering in Civil Engineering | GPA - 3 **August 2022 – May 2024**

Coursework: Building Information Modeling, Temporary Structures, Construction Methods field operations, Risk Management, Construction Materials, Advanced project Control, Construction Sustainability, Contracts, Specifications & administration.

- Nitte Meenakshi Institute of Technology, India:** Bachelor's in Civil Engineering **August 2017 – May 2021**

Coursework: Strength of materials, Fluid Mechanics, Building Materials & Construction, Building drawing and Planning, Engineering geology, Surveying Practice, Structural Analysis, Hydraulics and Hydraulic Machineries, RC structural elements, Highway Engineering, Design & drawing of irrigation structures, Railway & airport engineering, Design & drawing of steel structures, Estimation, Concrete & highway engineering laboratories.

CERTIFICATION:

- AutoCAD Certified Professional, Revit Certified Professional, OSHA 30-Hour Construction Safety Certification, 3DS MAX Certified, Certified Construction Manager-in-Training (CMIT), Procore Certified: Student (Procore)

SKILLS:

- Technical Skills:** MS Excel, MS Projects, Microsoft Office, AutoCAD, Civil 3D, Photoshop, Primavera, Bluebeam, Revit, Procore.
- Hard Skills:** Project management, Structural & Architectural analysis & design, Construction management, Cost estimation & budgeting, Risk assessment & mitigation, Surveying & mapping.

Work Experience

PROJECT ENGINEER | GPRR CONSTRUCTIONS, INDIA

September 2021 – July 2022

- Directed three residential construction projects to on-time completion, achieving a 12% reduction in budgets. Managed the \$1.2M Garuda Grand Apartments project, aligning deliverables with client expectations.
- Employed AutoCAD, Civil 3D, and Revit for precise project documentation, enhancing visualization and report accuracy. Saved \$100,000 through strategic budget management and detailed review of change orders.
- Analyzed structural and architectural drawings, managing diverse teams to ensure compliance with steel and concrete standards. Streamlined material release and work order processes for efficient project execution.
- Initiated risk assessment protocols to identify and mitigate design risks, increasing client satisfaction by 18% and establishing new quality benchmarks.

CIVIL ENGINEER INTERN | GOVINDASWAMY CIVIL CONTRACTOR, INDIA

May 2021 – September 2021

- Reorganized resource efficiency by 20% with precise scheduling and budgeting, using data analytics for effective risk management.
- Boosted client satisfaction by 11% through stringent quality controls and improved communication methods.
- Orchestrated weekly cross-departmental meetings, increasing the timely completion of projects by 25% and enhancing team coordination and effectiveness.

Academic Project

Slurry Wall Construction for Headworks Influent Station

- Engineered a robust slurry wall using 10,576 cubic yards of Portland cement concrete and bentonite slurry; ensured structural integrity to handle an impressive 868 MGD pumping rate across two shafts measuring 69 ft and 118 ft.

Commercial Building Design Using Revit

- Led the development of a commercial building model using Revit, producing detailed 3D renderings that enhanced visualization and facilitated precise project planning.
- Created comprehensive floor and component schedules, streamlining execution and ensuring detailed oversight from concept to completion.

Construction sustainability for Led Green Retrofit Plan Development for Casa Cortile

- Spearheaded comprehensive cost estimations for a green retrofit initiative by analyzing energy efficiency metrics and sustainable design strategies; achieved a projected reduction of annual operating costs by \$50,000 upon implementation.

Box Girder Bridge Timber Falsework Design

- Crafted a comprehensive load analysis using RISA 2D software, confirming compliance with relevant industry standards; this ensured the structural integrity of the bridge and mitigated potential risks during construction phases.

Project Management & Oracle Primavera P6

- Drove the project to completion 31 days ahead of schedule, boosting efficiency by 25% and reducing risks by 30%.
- Refined delivery and risk mitigation through a case study, risk management workshops, and Primavera P6 training.

Survey and Design Project

- Conducted block leveling and site assessments for village water supply systems, including intake structures, water treatment plants, and overhead tanks, across a 5,000 sq. ft. area, ensuring accurate elevation control.
- Executed a comprehensive highway survey for a 10 km road, focusing on gradient alignment as per IRC standards. Utilized AutoCAD and Civil 3D to design pavements and develop bearing plans, ensuring compliance with regulatory guidelines.
- Created detailed blueprints and key plans for both village infrastructure and highway projects, integrating all design elements into final construction plans.