MANJU RAMAIAH, P.E.

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**WORK HISTORY (OVERALL 20 years)**

Design Engineer

* Responsible for structural design /drawings and consultation.
* Investigation to determine the cause and origin of various site issues, including design and construction defects, and weather-related damage to residential, commercial and industrial properties.
* Capable of performing site evaluations, field analysis, and assessments of structural and architectural systems, roofing systems, and foundation systems.
* Provide evaluations for failures as a result seismic activity, wind damage, flooding, building envelope failures, and general construction failures, as well as providing general recommendations for remediation and repair.
* Perform structural failure analysis, and evaluation of damage from hurricanes, fires, explosions, blasting, construction vibrations, and differential foundation movement.
* Design of additions, repairs, field evaluations of various industrial projects, including as-builts.

**Currently working as a Consulting Engineer ( Food Processing and Industrial ) : Senior Structural Engineer**

*Engineering software tools* :

RISA 3D , RISA foundation , Ram elements. Familiar with ACAD .

1. *Food Processing Unit in Alabama:*

Modifications and additions to Existing Plant:

Catwalk additions

Equipment support on Ground, Cable trays and Piping systems.

1. *New food processing Unit in Tennessee :*

Structural design of Interior and Exterior elements for a Conversion of a Warehouse space Into a Candy Bar production Unit.

Roof and Joist modification due to Heavy RTU units additions. Several equipment pads added

Racks , supports and confined cooling spaces. Loading Dock modifications.

Exterior equipment support Foundations. Closing openings in Tilt-up walls. Etc.

1. *Greenhouse garden with processing Plant and packaging system :*

Structural elements related to roof structure modifications Pipe racks

Supporting structures for Ceiling hung Air-handling units.

1. *Papermill in Kentucky :*

Elevated Service Walkway for maintenance. Add on Pulper tank support and accessories. Demolition of existing grade slabs

Mat foundation design..

1. *Papermill in Tennessee :*

Tank Farm Mat Foundation supporting multiple Flat bottom tanks for pulp and paper Industry with multiple equipment like compressors , pump pads and Pipe racks.

Foundation design, anchor design and equipment support.

1. *Capital Improvements for Waste water treatment Michigan:*

Multiple Buffer tanks /whitewater tanks with foundation on Piles.

Addition of a Suspended Air Flotation building with 3 levels of floors on piles. Structural steel building enclosure design abutting an existing structure.

**Professional Affiliations**

Member of ASCE & ACI

**Certification**

**OSHA Certification**

**Descriptions of Specific Projects Undertaken :**

Naval Air Station (NAS JAX)

Facilities maintenance / Engineering design and review of work done by consultants

River Valley Paper Company (Jacksonville FL) Worked on rebuilding in their manufacturing units

Sargent & Lundy (Chicago IL)

Design of a combined cycle co-generation power plant in Texas. Involved in various aspects of structural design

Engineering Design (Lombard IL)

Facility reconstruction for projects at the BASF plant in Gurney IL Facility upgrade for a mid-west food manufacturer in Franklin Park IL

Babbitt Nelson, Mesa AZ

Design of an Administration Building at Signal Butte Water Treatment Plant in Mesa AZ

Complete structural design of schools (Legacy School in San Tan Valley AZ and the Avondale AZ School) Successfully completed other medical, office and other major buildings