



**FRANK A LOMBARDI, P.E.**

Engineering Design & Testing Corp.  
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**ENGINEER: CIVIL/STRUCTURAL**

## **EDUCATION**

- 2013 **M.S. Structural Engineering**  
Stanford University, Palo Alto, CA
- 2011 **B.S. Civil Engineering**  
N.J.I.T. Albert Dorman College, Newark, NJ

## **EXPERIENCE**

- Sept 2023  
to Present **Engineering Design & Testing Corp.**  
**Hartford, Connecticut**  
*Consulting Engineer*  
Specialized consulting with an emphasis on cause, scope, and value of damage pertaining to structural systems, including commercial, industrial, and residential structures. Investigation of structural elements includes, and is not limited to, roof coverings, building envelopes, foundations, compliance to current codes, and required construction practices. Evaluate residences failure analysis involving concrete, masonry, steel, and wood structures. Assess structures by examination of damage cause by wind, flood, fire, impact, vibrations, vehicle impacts, tree impacts, moisture intrusion, and foundation settlement.
- Oct2022  
to Sept 2023 **Pinnacle Consulting**  
**Gilbert, AZ**  
*Senior Structural Engineering Manager*  
Produced site specific contract documents during leasing, zoning, permitting and construction phases of a telecommunication project. Analyzed and designed structural components. Analysis included updating current designs to account for carrier modifications to appurtenances and subsequent equipment mounts in accordance with governing building codes; as well as loads imposed to existing stealth, monopole, and self-support towers. Optimized design of the tower superstructure at new site locations for stealth, monopole and self-supported lattice towers as well as sizing the supporting base connection and foundation mat slab or caisson components. Retrofitted rooftop sites to support telecom equipment including but not limited to mounts, appurtenances, power supplies, battery backup units and other superimposed loads.
- July 2013  
to Sept 2021 **Thornton Tomasetti**  
**Newark, NJ**  
*Senior Engineer*  
Building Construction Administration: Managed, coordinated, and delegated work among architects, unions, and construction teams regarding erection of various structural buildings. Oversaw construction was completed in accordance with structural contract documents and state building codes. Reviewed shop fabrication

drawings. Addressed unforeseen issues or problems that arose in the field. Prepared alternative designs to remedy construction non-conformance issues.

Structural Calculation and Design: Design of structural building elements including steel and concrete. Steel building designs focused on gravity systems, lateral systems, and connection designs. Concrete building design focused on slabs (including slab on grade, reinforced, post-tension, and composite slab on metal deck), beams (reinforced and post-tension), foundation and retaining walls. Prepared design calculations for concrete flat slab, concrete PT slab design, column bases (anchor bolts and plates), connection design, and lateral force resistance.

Aug 2012  
to Sept 2013

**Applied Technology Council**  
**Redwood City, CA**

*Engineer*

Developed and promoted the advancement of technologies to enhance societal resistance and to minimize risk to natural and other hazards. Provided technical support in the advancement of engineering applications and projects for hazard risk mitigation. Coordinated the preparation of final camera-ready reports, seminars, workshops, project meetings, and other events.

## **EXPERIENCE**

### ***Legal Consultation (partial list)***

#### **1707 Reality — Jersey City, NJ**

There was an insurance claim on a poorly constructed hotel. The building structure was concrete. My role was to aid the expert witness by reviewing inspection reports and design documents to determine the performance of the hired special inspector's role in documenting the quality of the general contractor in accordance with the governing NJ requirements.

#### **TransHudson — Jersey City, NJ**

There was a leaking oil-o-static pipe between Brooklyn/Staten Island and Jersey City. My job was to aid the litigation and observe the underwater team so that they can determine the source of the leak without causing structural damage to the pipe or adjacent sheet pile wall.

### ***Field Experience and Consulting Activity (partial list)***

#### **Hudson Yards — New York City, NY**

Performed site observations during construction.

Aided general contractor in implementing structural concrete elements.

#### **360 Citizens — New York City, NY**

Performed site observations during construction.

Aided general contractor in implementing structural concrete elements.

#### **1,3,5 Harborside — Jersey City, NJ**

Performed site inspections to structural elements including concrete, masonry, and steel

Coordinated all disciplines and dealt with on-site issues and problems,

Prepared alternate designs to remedy non-conformities,

Responsible for oversight of project and delegation of tasks between members.

#### **LaGuardia Airport — New York City, NY**

Performed site observations during construction.

Aided general contractor in implementing structural concrete elements.

## **REGISTRATIONS and CERTIFICATIONS**

Registered Professional Engineer in State of NJ (GE # 54093)

Registered Professional Engineer in State of DE (Reg # 29457)

Registered Professional Engineer in State of MD (Lic # 62575)

National Council of Examiners for Engineers and Surveying Record (#13-099-52)

ACI: Field Test Technician & Concrete Construction

ACI Concrete Special Inspector (No. 01343408)

NYC DOB Scaffold (No. TSC17-68955)

OSHA Trained (No. 36-005953952)

## **PROFESSIONAL ORGANIZATIONS**

ACE Mentorship (ACE)

American Concrete Institute (ACI)

American Institute of Steel Construction (AISC)

## **CONTINUING EDUCATION**

2023     *Site Pro 1 Mount Analysis*, Gilbert, AZ

2024     *Interior Fire-Rated Walls in Multi-Family, Light-Frame Wood Construction*,

2024     Designing and Detailing Mass Timber Projects for Acoustic Performance

2024     The Technical Challenges of Oceanic Wind Turbines, Greenville, SC