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FIRM

MISSION STATEMENT

EMTG was established in 1988 with the goal of becoming a premier Consulting Engineering Firm in today's increasingly demanding business climate. **EMTG** is dedicated to providing excellence in engineering and related services to our clients and is organized to allow for maximum personal and continual support to the client throughout the design and construction phase of their project. Today, **EMTG** continues its relentless pursuit of design excellence to best serve its clients.

Our goals are to develop the best and most cost effective solution to each problem within the Client's constraints of time, budget, and functional space requirements. The firm is a multi-disciplined engineering and design service for the building construction industry.

Our project approach relies on a rich mix of talent, experience and innovativeness that allows for flexibility within a proven structure. Today's engineering environment is evolving in unpredictable ways, with increasing demand on time and budget constraints. Our clients count on **EMTG** to anticipate the direction of change and plan for the future. From up-front planning through construction, we seek pragmatic and cost-effective solutions. On projects large or small, the level of attention to details and adherence to today and tomorrows trends in technology and systems, codes and standards, and trends in construction means and methods are our outmost focus. **EMTG** team members constantly find ingenious ways to design and engineer projects, improve the specifications and out-think problems before they happen.

From large pharmaceutical plants and Wall Street trading floors to small basement retail spaces and residential units, we bring the same enthusiasm and commitment to quality and prompt delivery of the project.

This collaborative approach backed by rigorous attention to detail and persistence has sustained our growth and evolution for twenty years. Our clients are satisfied and repeatedly request our services, the majority of which retained us at first through word of mouth from other Owners, Developers, Real State Companies, Architects, Construction managers, or Contractors.

Welcome to **EMTG**.

APPROACH

Over the past twenty years we have nurtured and perfected a simple yet highly successful methodology for providing accurate, timely, and cost effective professional engineering services for our clients.

PLANNING

In the initial planning stages a clear scope of work is established to familiarize ourselves with the client's needs and the project's specific requirements. This is done to facilitate effective scheduling and budgeting control over the design of various engineering systems. A specific project team is then created matching the talents of the **EMTG** professionals to the technical demands of the project. With each new project, our organization carefully considers the appropriate staffing requirements. It is this flexibility that allows us to increase our responsiveness to clients.

BUDGETING

Project engineering budgets are established with an eye toward initial cost, effective technical solutions, as well as future operating and life cycle costs. **EMTG** seeks close participation of the Owner and Architect at this stage to insure feasibility and to highlight compromises to be made by each participant. After the budgets are developed, periodic in-house meetings are held to monitor costs through the entire design phase of a project.

SCHEDULING

Engineering design schedules are developed to allow careful monitoring of the production milestones within the owners and architect's overall time frame of plans and specification production. To keep a project on track we are flexible and sensitive to each project. **EMTG** has considerable experience with fast-tracking projects, and has participated in design build collaborations to expedite schedules or to meet the specific needs of the project. We recognize the importance of completing a project design on time as well as within budget. We work as a team to effectively interface with the Owner and consultants to achieve the solutions that allow the project to move forward. This may consist of segmenting the project or utilizing data from previous experience during the normal course of the project.

COORDINATION

EMTG is praised for its' ability to provide well coordinated engineering plans even for the most complex assignments. Interaction for sake of better project coordination with architects, owners, and specialty consultants is a top priority for our project managers. This results in a carefully coordinated engineering document for accuracy and consistency.

SPECIFICATION

We write our own specification tailored and customized to each project consistent with leading industry standard specification. We do not use separate staff for writing engineering specifications. At **EMTG** the people who design the engineering systems are responsible for writing and tailoring the specifications.

SHOP DRAWINGS

The design engineer for the project is also responsible for reviewing the shop drawings and responding to field questions from owners, architects, and contractors. We provide a timely and comprehensive review of all shop drawings related to our trades. **EMTG** minimizes the potential for future project delays by putting special emphasis on the shop drawing review stage.

POST COMPLETION REVIEW

EMTG has an obligation to clients even well beyond the design and construction phase of a project. We provide a Punch List report to our clients just before their occupancy which is a comprehensive review making sure installed systems are as per our design and specification, while contractors are still on site, and further to ensure optimum system performance.

CAPABILITIES and SERVICES

Scope of Services Provided

As a full service mechanical and electrical consulting engineering firm, **EMTG** provides all inclusive engineering analytical and design requirements for any size project. Our engineering design documents will be all inclusive of design plans and specifications ready for competitive bidding. The designs provided by **EMTG**, regardless of the size or complexity, are recognized as being consistent with the appropriate technology, the needs of the client and the budgets established for the project. At **EMTG** the harmonious blending of the multiple disciplines is achieved through a process that has been established by an engineering culture and approach that recognizes the importance of the client and their need for coordinated documents that will be completed to meet all of their requirements.

The firm is a member of the U.S. Green Building Council (USGBC) with LEED AP certified staff members.

- Heating, Ventilating and Air Conditioning (HVAC) Systems
- Electrical Systems
- Plumbing Systems
- Sprinkler Systems
- Fire Alarm Systems
- Engineering Feasibility Studies and Due Diligence Reports
- Plan Reviews
- System Commissioning
- Building and Energy Management Systems
- Information Technology Systems
- Automatic Control Systems
- Energy Conservation Studies and Systems
- Master Planning
- Lease Negotiations
- Field Surveys, Inspections and Investigations
- Building MEP Evaluations
- Utilities
- Operating Analysis Studies
- Critical Systems
- Information Technology

CAPABILITIES and SERVICES Continued...

Our focus is on the following categories of services and systems where we are competent academically, and have an intimate practical experience and knowledge of related engineering and design issues that arise:

Heating Ventilation and Air Conditioning (HVAC)

- Heating Systems
- Ventilation Systems
- Air Conditioning Systems
- Refrigeration Plants
- Boiler Plants
- Air Handling and Distribution Systems
- Fluid Handling and Distribution Systems
- Water Treatment Systems
- Computer Room, Clean Room and Laboratory Environmental Systems

Electrical

- Electrical Service
- Electrical sub metering
- Electrical Distribution Systems
- Electrical Load Calculations
- Motor Control Centers
- Emergency Power Systems
- Uninterruptible Power Supply Systems
- Lightning Protection Systems
- Lighting Control and Master Dimming Systems
- Grounding Systems
- Lighting Design and foot candle calculations
- Data Center and Computer Room Electrical and Grounding Distribution Systems
- Elevator and Vertical Transportation Systems

Plumbing

- Hot and Cold Potable Water Systems
- Storm Drainage Systems
- Sanitary and Waste Systems
- Water Treatment and Filtration Systems
- Fuel Storage and Distribution Systems
- Backflow Prevention Systems
- Well Water Systems
- Water Irrigation Systems
- Medical and Laboratory Services
- Gas Distribution Systems
- Compressed Air Systems

CAPABILITIES and SERVICES Continued...

Fire Protection (Sprinkler and Fire Alarm Systems)

- Fire Protection and Suppression Systems
- Wet Sprinkler Systems
- Dry and Pre action Sprinkler Systems
- Fire Alarm System
- Sprinkler Alarm Systems
- Smoke and Heat Detection Systems

Lease Negotiation

- Lease Audit
- Building and Site Due Diligence Reports
- Needs Assessments
- Lease Review of Engineering Provisions
- Lease Drafting Assistance for Engineering Related Items

Master Planning and Studies

- Site Evaluations and Feasibility Studies
- MEP Systems Assessment
- Economics of design and Engineering related to Life Cycle Studies
- Existing and New Infrastructure Evaluations
- Due Diligence Reports
- New Building shell and Core Design
- Capital Expenditures and Budgeting

Energy Conservation

- Energy Audits
- Computer Modeling and System Simulation
- Cooling and Heating Load Profiles
- Energy Conservation Designs - New and Retrofits
- Variable Speed Delivery Systems
- Optimized System Operation and Controls
- High Efficiency Motors and Equipment
- Integration of BMS and DDC Controls
- Efficient Lighting Designs and Control Systems
- Heat Recovery Systems
- Free Cooling Systems
- Thermal Storage Systems
- Performance Testing of Systems Equipment
- Peak Load, Curtailment and Cogeneration Systems
- Integrated Architectural and Engineering Systems
- High Efficiency MEP Designs
- Black and Grey Water Systems
- Day lighting and Dimming Systems
- Under floor Air Distribution System
- Commissioning
- Life Safety
- Management System
- Telecommunications

PROJECT TYPES

Commercial

Corporate Offices
Banks
Sporting Facilities
High Rise Buildings
Computer and Data Processing Rooms
Retail Stores, Dining Facilities, Hotels and Motels
Medical Laboratories, Hospital, Clinics
Airports

Cultural Facilities

Galleries, Museums
Art Storage
Community Centers, Religious Buildings

Industrial

Power Plants
Clean Rooms
Telephone Facilities
Co-Generation Plants
Manufacturing, Warehousing

Institutional

Schools Universities Colleges
Dormitories
Incarceration Units
Hospitals and Medical Centers

Residential

TEAM MEMBERS

Shahram Lotfi, P.E. –Principal in Charge

A licensed and registered Professional Engineer Mr. Lotfi performs overall management of the professional services to clients, including primary liaison with owners on matters pertaining to the contract, objective setting, planning and delivery of services. Mr. Lotfi joined the firm in 1989, and became partner in 1993. In 2000 Mr. Lotfi became Principal in Charge responsible for all of the firm's professional and engineering services.

Mr. Lotfi engineered and designed various projects for commercial, industrial, and governmental buildings which includes computer facilities, medical facilities, educational facilities, Community or religious buildings, high-rise residential buildings, and high end single residence buildings.

Mr. Lotfi received both a Bachelor and a Master of Engineering degree from City College of City University of New York (CCNY). He also holds an Associate in Science degree in Engineering Sciences (ASES), from Nassau Community College (NCC) where he graduated Cum Laude. Mr. Lotfi has given lectures in engineering technologies and has been published.

Mr. Lotfi is a member of The National Society of Professional Engineers (NSPE), American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRE), the Institute of Electrical and Electronic Engineers (IEEE), The International Code Council (ICC), and National Fire Protection Association (NFPA). Mr. Lotfi is certified by National Council of Examiners for Engineering and Surveying (NCEES) and U.S. Green Buildings Council (USGBC).

Mr. Lotfi is a licensed and registered Professional Engineer in the states of New York, New Jersey, Washington D.C., Maryland, Pennsylvania, Connecticut, and Illinois.

Project Managers

Howard Haber, M.E.
Dustin Hickey, M.E.
William Scully, E.E.

Engineering and Design Team

Hassan Kholdi, P.E.
Farzad Haghi, P.E., LEED AP
Anoosh Tirabady, P.E.
Vinh Tran, M.E.
Sivash Shybany, E.I.T.
Umamah Najeeb, E.I.T.
Harris Chung, M.E.
Amir Kiani Rad, E.I.T.

PROJECTS

Selective projects of various types are shown in this section. Collectively, they establish the depth of experience and the know-how that define **EMTG**. These projects constitute a body of work that range from simple to complicated and sophisticated MEP systems as recognized in the construction industry. Common to all are our design excellence, technical sophistication and consistency in simple step approach design. **EMTG** provided solutions that recognized the goals of the owner, the architect and the contractors building the project.

Office Renovations/ Corporate:

EMTG has designed and engineered over 40,000,000 Sq. Ft. of office spaces throughout New York City metropolitan area. Notable projects are:

Tucker Anthony at World Financial Center, New York, N.Y.
Readers Digest Office, New York, N.Y.
Virginia Life Insurance, New York, N.Y.
Kemper Life Insurance, New York, N.Y.
Mutual of America, New York, N.Y.
Remy Martin Corporate Office, New York, N.Y.
Unisys, New York, N.Y.
Chiat Day Advertising, New York, N.Y.
475 Riverside Drive - The Interchurch Center – 22 partial floors, New York, N.Y.
A.W. Jones at Rockefeller Center, New York, N.Y.
The Bible Society, New York, N.Y.
Victoria's Secret Office, New York, N.Y.
Cambridge Technologies, New York, N.Y.
Tucker Anthony at Jersey City, Jersey City, N.J.
Sotheby's International Realty, New York, N.Y.
Westvacco Office, New York, N.Y.
Foster Industries, New York, N.Y.
Roura & Melamed, New York, N.Y.
Austrian Mission, New York, N.Y.
New York Sport Club Corporate Office, New York, N.Y.
Cambridge Technology Partners, N.Y., N.J.
Amalgamated Insurance, N.Y., N.J., and White Plains, N.Y.
American Financial Group, New York, N.Y.
Rare Medium, New York, N.Y.
Javelin Technologies, New York, N.Y.
Road Runner, New York, N.Y.
Cyber Dialogue, New York, N.Y.
490 Broadway, New York, N.Y.
Neon, New York, N.Y.
NHK Japan TV, New York, NY

PROJECTS – Continued...

M.L. Moskowitz, New York, N.Y.

Live On Line, New York, N.Y.

National Development Research Institute at World Trade Center, New York, N.Y.

Medical / Pharmaceutical

Bay Ridge Radiology, Brooklyn, N.Y.

Aids Infirmary at Riker's Island, New York, N.Y.

St Agnes Children's School, Carvel Foundation, White Plains, N.Y.

Montifiore Hospital, Rochambeau Office

Forest Laboratories, Commack, N.Y.

Mary Mitchell Family and Youth Center, Bronx, N.Y.

Dr. DeJesus Dental Clinic, New York, N.Y.

New York Blood Center, New York, N.Y. (six locations)

Dr. Hoofar Clinic, New York, N.Y.

Astoria Park Dental, Astoria, N.Y.

Helen B. Atkinson Health Center, Bronx, N.Y.

VA Hospital at Northport, L.I.

Federal /State / City Projects

Riker's Island Aids Infirmary, New York, N.Y.

Westchester County Correctional, Westchester, N.Y.

Elmhurst Hospital Woman Detention Center, Elmhurst, Queens

United States Post Offices (ten locations)

Veterans Administration (VAMC), Northport, Castle Point, Manhattan, Montrose

Rockland Psychiatric Center, Rockland, N.Y.

Manhattan Community College (Escalator Enclosure), New York, N.Y.

Kinnelon High School and Municipal Building, Kinnelon, N.J.

Staten Island Children's Museums, Staten Island, N.Y.

VAMC at Northport SPD Unit, VAMC at Castle Point, Dental Clinic

Educational / Dormitory Renovation

Stony Brook University Hendrix Hall & Roth Quad, Stony Brook, N.Y.

Mercy College, Dobbs Ferry, N.Y.

Touro College, New York, N.Y.

Manhattanville College, Purchase, N.Y.

Hunter College -New York, N.Y.

New York Technical School, Brooklyn, N.Y.

C.W. Post of Long Island University -Administration Building, Brookville, N.Y.

C. W. Post of Long Island -Student Dormitory Buildings, Brookville, N.Y.

New School University, N.Y. (ten locations)

PROJECTS – Continued...

Airport/ Airlines/ Port Authorities

British Airways (Boston, Philadelphia, and Washington Dulles International Airport)
Saudi Arabian Airlines at Washington Dulles International Airport, Washington, D.C.
Duty Free Shop at Terminal One -JFK International Airport, Brooklyn, N.Y.
Korean Airlines at Washington Dulles International Airport, Washington, D.C.
Dunkin Donut at JFK Delta Terminal, N.Y.

Theaters:

Variety Arts Theater, New York, N.Y.
Lortel Theater, New York, N.Y.
Promenade Theater, New York, N.Y.
Second Stage Theater, New York, N.Y.
Theater in the Park, New York, N.Y.
Quad Cinemas at 86th., New York, N.Y.
450 W. 37th St Theaters, New York, N.Y.
Queens Theater in the Park Renovations, Queens, N.Y.
Paul Taylor Dance Studio, New York, N.Y.
Barishnikov Dance Academy, N.Y.
Lincoln Plaza Cinemas

Sport / Fitness Facilities:

New Jersey Devils, East Orange, N.J.
New York Sport Club, N.Y. (seventy locations), New Jersey Sports Club, N.J. (fifteen locations)
Boston Sports Club, C.T. (five locations)
Washington Sports Club, Washington DC, (five locations)
Philadelphia Sports Club, P.A. (five locations)
New Jersey Race tracks, Manmouth, N.J.
Club H at 34th Street, and Club H at Jersey City, N.J.
New York Athletic Club, N.Y.
Crunch Gym, N.Y.
David Barton Gym, N.Y.
MAC Club at Mt. Kisco, N.Y.

Banks:

Bank Leumi, New York, N.Y.
Credit du Nord, New York, N.Y.
Bank of China, New York, N.Y.
Amro Bank, New York, N.Y.
New World Savings bank, New Jersey
Bank of India, New York, N.Y.
Sterling National Bank, New York, N.Y.
Ponce DeLeon Bank, Bronx, N.Y.

PROJECTS – Continued...

Industrial Projects:

West Mill Clothes Manufacturing Plant, Queens, N.Y.
Travers Tool, White Plains, N.Y.
American Standard Plant, Long Island, N.Y.
Pettraca Brothers Contracting, N.Y.
Town sports International Commercial Laundry Facility, Elmsford, NY

Restaurant /Food Specialty:

BB King at Times Square, New York, N.Y.
Angelo and Maxies, New York, N.Y.
Café Europa –Various locations, New York, N.Y.
Café 75 at Rockefeller Center, New York, N.Y.
Bread and Basket –Various locations, New York, N.Y.
Skippers Restaurant - South Street Seaport, New York, N.Y.
Nathans' Famous – Various locations, New York, N.Y.
Harlem Nursing Home, New York, N.Y.
Travel Channel Studios, New York, N.Y.
Pepsi Corporation at College Point, New York, N.Y.
Forest Laboratories – Pharmaceutical Various locations, N.Y.
Ikanari Steakhouse – Various Locations.

Specialty - Residential

American Stock Exchange - Portable Emergency Power, New York, N.Y.
Archipelago, New York, N.Y.
Dennis Hayes Video/Audio Recordings, New York, N.Y.
Genosys Technology Management, New York, N.Y.
Kosciusko Foundation, New York, N.Y.
Rhinoceros Video Recording, New York, N.Y.
Balsmeyer & Everet Inc., Audio Video Studios, New York, N.Y.
Hudson River Psychiatric, Poughkeepsie, N.Y.
40 Rector Street - 1000 KVA generator, New York, N.Y.
New York Sports Club -15 KV service, Society Hill, PA
Switch and Data High Technology Center, New York, N.Y.
Ed Bradley Residence, Central Park West, NYC.
Carl Ichon Residence, Upstate, NY
Paul Newman Residence, East 86th Street, NYC
715 Soundview Ave, Bronx, NY – Residential Hi Rise
179 Throop Ave, Brooklyn, NY – Residential Hi Rise
97 Junius Street, Brooklyn, NY - Residential Low Rise – 160 Units

PARTIAL CLIENT LIST

Architects

Anderson Architects
Butler Rogers Baskett Architects
Corporate Design Associates
Gensler
Global Architects
Gwathmey Siegel & Associates Architects
Hardy Holzman Pfeiffer Associates
Kenneth Irving Architects
Morris Nathanson Design
Nomad Architects
Perkins Eastman Architects, P.C.
Philips Jansen Architects
Tuller McNealus Architects
The Phillips Group
YT Design Associates
Urban Architectural Initiative
Joan Dineen Architects.

Owners / Managements

Town Sports International –New York Sports Clubs
New York Blood Center
Long Island University, C. W. Post Campus
Columbia University
New School University
Green Acres Mall
ACTA Realty Corp.
Rockefeller Family
40 Rector Management
Mount Sinai Realty
Edward S Gordon Realty
Edison Parking
Amalgamated Life Insurance
Tucker Anthony
American Stock Exchange
Forest Laboratories
Vornado Realty, N.Y.
25, 65, and 1926 Broadway Management companies
The Interchurch Center at 475 Riverside Drive

Veterans Administration Medical Center (Manhattan, Northport, Castle point, Lyons)
Brooklyn Tabernacle
Soucycle
IMAX