

SNN | ARCHITECTS

International Architecture & Engineering Design Group, LLP.

Wael M Youssef, MSCE, PE

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EMPLOYMENT HISTORY

SNN Architects, International Architectural & Engineering Design Group LLP, New York , NY

**Project Director Structural
Desgn**.....2013-present

AECOM, New York , NY

Project Manager.....2014-2013

WSP, Doha, Qatar

Associate04/2013-01/2014

Louie Intl. (formally Middle Brook & Louie), San Feancisco, CA

Senior Project Engineer 01/2009-04/2013

Ammann and Whitney, New York, NY

Associate 06/1998-10/2008

TARGETED PROJECT EXPERIENCE

Westchester County Airport, Westchester, NY

Structural Project manager, the project scope; Terminal Building Departures Lounge Expansion, Re-construction of the South Concourse, two new jet bridges and a fixed walkway.

Republic airport, Farmingdale, NY

Structural project manager, Historic Aircraft hangar re-location, the first hanger houses The American Air Power Museum, the second structure houses a flight school also used for aircraft maintenance
The project objective is to fully relocate the structures in its entirety to a new location on the airport—approximately 2500 ft. due South- where it would not interfere with future runway operations and to construct temporary facility to house the current operations while the hangers are relocated.

Terminal Building, New Doha (Hamad) International Airport, QATAR

On site lead consulting structural engineer for the construction support of A \$ 6.5 billion mega project (6.3 million sq ft) passenger terminal complex being built on reclaimed land adjacent to the Arabian Gulf. The main terminal featuring main arches spanning more than 300 ft. and three concourses to include 41 contact gates, an elevated APM system plus an additional 10 remote-stand gates as well as a public mosque, Elevated roadway leading to departure level and a multistory 3,100-car parking garage with an adjacent ground

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transportation building that control and regulate access to the terminal and facilities, the complex Also contain other supporting structures like Utility plants and car rental facilities.

This new airport is among the first in the world specifically designed to accommodate Airbus' new A380-800 double-decker 'super jumbo' and a significant landmark to the Gulf region.

CLIENT: New Doha International Airport Steering Committee

ARCHITECT: Hellmuth Obata Kassabaum (HOK)

Role/Responsibilities:

Revising or updating the structural document to accommodate site conditions, constructability issues,

sequencing or construction errors, prompt review and approval of shop drawings and RFI's

Regular weekly meetings with multinational construction teams, the C.M. & owner representative to coordinate and answer logistics and technical queries,

Visits to the steel fabricators and other vendors' global offices (Thailand, Italy, the US and the U.A.E.) to inspect Mock-ups, steel shops and to discuss various issues with contractors/consultants..

Discussing/negotiating the contractor change order claims and verification of their validity.

In summary, providing creative and out of the box designer input to achieve quality while meeting schedule and monetary requirement in a complicated project and a challenging environment.

Automated People-Mover station, Dulles Intl. Airport

To meet the growing demand and efficiently transport passenger between the main terminal and the various concourses the MWAA has developed an extensive fully automated people mover system (APM) below grade.

The APM main terminal station is the signature piece of said system; the station is vast with 1,600 ft. in the East West direction and a 105 ft. in the North South direction and is founded 55 ft. below the apron surface.

The station includes a security screening mezzanine. The basic roof system (span of 105') capable of supporting mobile lounges weighting 83,000 lb each. Roof system consists of 12" concrete slabs supported by skewed concrete beams 30" wide and 42" deep supported at mid-span via king post supported on two post-tensioned galvanized steel structure strands 2.5 in. in diameter, the posts are designed as telescoping columns, cables are tensioned by jacking of king posts.

Role/responsibility

On the project from day one, stating the design criteria and developing alternative framing systems.

Constructed a complete 3-D model of the station with all structural elements (retaining walls, roof system of slab, beams and cables.

Worked on the Design and detailing of all structural elements: slab, beams, cables, columns/walls, working out complicated reinforcing details and connections resulting from a unique framing system.

Construction sequence, shoring of existing (*And fully operational*) terminal, load transfer to temporary frame and back to permanent structural elements as completed.

Stationed on site for two years during construction (at owner's request) as a Lead project engineer and head of the construction support to support construction, effectively communicate the design intent of various complex details, identify and resolve technical issues in an expedited manner and to work out alternate sequencing and details as needed.

Project was featured in the January 2010 issue of the ASCE & nominated for project of the year.

Air Train Terminal Connector Bridge, Jamaica, NY

Project Engineer for design of ADA bridge extension. Pedestrian bridge design facilitated connecting the Jamaica Subway station to the Long Island Rail Road station and to the new AirTrain terminal, working around

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a fully operating station, minimizing disruption was a key objective, by assessing the capacity of existing columns and foundations we eliminated the need for new foundation and supported the bridge on existing superstructure, no disruptions to facilities or train operations during construction.

Delta Terminals 2 & 3, JFK International Airport, NY

Lead design Engineer for preliminary analysis and design studies for replacement of Delta terminals 2 and 3, studying various design schemes and main systems to achieve a functional and economical design

The Iekhwiya Multipurpose handball arena, Doha Qatar

Project Manager for the Iekhwiya Multipurpose handball arena, 500,000 sq.ft., 5500 seat covered arena along with two training courts, offices and 60 rooms accommodation block, the project is a fast track Design-built Joint Venture (90 days total design and coordination program) utilizing concrete frames covered by steel trusses spanning up to 250 ft

Training courts employ precast concrete walls and steel truss roof.

Responsible for the delivery of the project from concept through construction as well as managing the Interface and coordination with all disciplines.

EDUCATION

BSc (Eng.) /1991/Civil Engineering Cairo University

MSCE/1996/Civil/Structural Engineering, City University of NY

Graduate/Post Masters Studies 1996-1998, The City University of NY Earthquake Engineering

PROFESSIONAL ASSOCIATIONS

Member, American Institute of Civil Engineers (ASCE)

PROFESSIONAL REGISTRATION

Registered professional Engineer in the State of New York

PROGRAM SKILLS

All Microsoft software applications: AutoCAD, Revit, ETABS, SAFE, STAAD