

**PHD in Architecture with more than 25 years of professional and academic experience in the field of architecture, construction development and building energy analysis in Egypt, USA and Saudi Arabia**



**Dr. Tarek Saad El Hinnawy**

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## **PROFESSIONAL EXPERIENCE:**

### **Architectural Advisor**

**Madinah Development Authority (MDA)**

**Madinah Al-Munwarah, Saudi Arabia**

**Dec. 2012- present**

In my capacity as Architectural Advisor, my duties includes the following activities:

- Review and approve for initial design at **Central Madinah Development Project** with buildings consultants.
- Review all architectural design stages for Madinah Civic Centers with consultants.
- Develop and perform urban studies for buildings elevations to insure proper coordinating materials and color selection for building Façades.
- Develop and perform studies for new Green Building guidelines for design and construction at (CMDP).
- Review many projects in all aspects of design development with world's high profile architectural firms.
- Prepare and manage Terms of Reference for Architectural and Master planning competition to design the Noble Qur'an Oasis - a multidisciplinary, Edu-cultural and Edutainment complex- and Madinah Welcome Center. The Madinah Welcome Centre will enable visitors to experience the sights, sounds, smells and spirit of Madinah.

### **Project Manager & Developer Representative**

**Al-Manakha Complex project, Madinah Central Area**

**Al Manakha Development CO., Madinah Al-Munwarah, Saudi Arabia.**

**Feb. 2012 –Dec. 2012**

Al-Manakha Complex project aims to develop the Holy Mosque adjacent open areas and the historical mosque to build hotels, multi-level shopping, restaurants and office building for over a 6000 Sqm footprint (110000 Sqm built up area) and surrounded by 28000 Sqm of generous landscaping and water areas. The project estimated cost is 500 million SR.

My duties includes the following activities:

- Manage the performance and compliance of the consultant/contractor according to the scope of services and standards.
- Monitor the construction program and performance of the consultant/Contractor and recommend action when needed.
- Monitor the work progress and report directly to company executive manager for necessary action as needed.
- Closely monitor the daily activities on site.
- Attends all meetings related to the project with other parties.

**Senior Architect & Team Leader**  
**Central Madinah Development Project (CMDP)**  
**Zuhair Fayez Partnership Consultant. Madinah Al-Munwarah, Saudi Arabia.**  
**2006- Feb. 2012**

The Central Madinah Development Project (CMDP) covers an area of 2.6 million square meter around the holy mosque at Madinah. The CMDP project comprising over than 1 million square meter of built up area with approximate cost of 35 billion S.R. The project includes more than 500 hotels, retail, commercial, cultural and public facilities to households about 35000 visitors. Many of the world's high profile engineering firms have been engaged in design and construction throughout the development.

In my capacity as a Senior Architect and Team Leader, my duties includes the following activities:

- Co-ordinate, and control all the input functions such as, design and construction through the development process to ensure that development concept are achieved and delivered as planned.
- Review and approve for more than 100 project initial design with buildings consultants.
- Coordinate a multidisciplinary team for construction drawings review and projects site inspection.
- Lead and manage a team of multidisciplinary engineers to develop new guidelines for design and construction at (CMDP).
- Develop and perform urban studies for streets and buildings elevations to insure proper coordinating materials and color selection for building Façades.
- Review and approve for material selection prepared by buildings consultants following Madinah building façades theme and style.
- Review, from a technical point of view, all conceptual schematics, reports, designs and drawings.
- Coordinate with governmental officials for services delivery requirements.
- Participate in Prepare and present necessary periodical follow-up reports to the Developing Commission of Madinah (DCOM).

**Vice President, Center for Building Environmental Studies and Testing (C-BEST)**  
**Cairo, Egypt,**

**1997–2006**

*C-BEST* was founded to pursue a role in the promotion of environmentally sustainable development by promoting environmentally-sound initiatives and defining clear objectives for environmental policy and is one of the official resource centers of the United States Department of Energy (US DOE) promoting public domain computer simulation programs (DOE-2; BLAST), and offering independent consultancy in building energy simulation studies and design.

In my capacity as vice president, I joined and lead a team of professionals to perform studies in the following fields:

- Building Indoor Environmental Studies
- Solar and Other Renewable Energy Studies
- Green Architecture and Energy Conservation
- Building Thermal Modeling & Design
- Environmental Testing & Publications

**Results:**

- A number of designs were performed using Green Architecture parameters.

- Developed software in collaboration with other professionals to design Shading Mask for any window orientation and at any latitude that helps architects to implement solar controls to their designs.
- More than 10 studies were done to reduce heating and cooling loads and to save energy using energy simulation tools for number of buildings in Egypt.
- An ongoing effort to publish a new book in the field of “Energy Saving In Architecture” to be used for architects and other professionals.

**Co-founder and Principal, PAD Group, Planning and Architectural Design Consultants, Cairo, Egypt, 2003 – 2004.**

In my capacity as principal, I was managing and supervising a team of architects to design a number of projects, one of the major was:

- El-Sweedy Medical Center, Ahmed Orabi, Cairo Metropolitan Area comprising a surgical suite, diagnostic X -ray suite, tele-therapy unit, laboratory, outpatient activity and 48 inpatient rooms.

**Senior Architect, MIMAR, Consultants in Architecture & Planning – Adel Ismail & Michael Dennis & Associates. Cairo, Egypt, 2002.**

In my capacity, I was responsible for setting up all analysis and space programming studies for the project of King Khalid University Campus (KKUC):

- (KKUC), Abha - Kingdom of Saudi Arabia. The project comprising a number of scientific and theoretical colleges and institutes to accommodate a total of 50,000 male and female students. The campus includes an 800 bed educational hospital and housing for students, staff, faculty and administrative staff

**Co-founder and Principal, ENVIROPLAN, Architectural, Environmental and Planning Consultants, Cairo, Egypt, 1998 – 2002.**

I managed and supervised a group of architects on the following projects:

- Architectural Competition to design Civic and commercial center in Alexandria Metropolitan Area comprising a shopping mall, exhibition halls, office building and 3-star hotel, landscape design.
- Architectural Competition to design Low-income housing in Suez City.

**Architectural Engineering and Design Consultant, Cairo - Egypt, 1996 – 2002**

Delivering consulting services to a number of clients in the field of contracting and real estate development.

**Founder & Owner, EQ-Arch., Environmental Quality Architecture, Cairo - Egypt, 1994 - 2004**

Design, site supervision and engineering consultancy for a large number of projects such as private residences, country houses, beach resorts, shopping malls, educational facilities and health care facilities.

**Free-lance Architect and Interior Designer, Cairo - Egypt, 1982 - 1993**

Major Projects:

- Apartment buildings, beach Houses, swimming pools, retail stores.
- Construction and Management of site construction for many residential buildings and hotels

## **ACADEMIC EXPERIENCE**

- Associate Professor, Department of Architecture, Faculty of Engineering, Zagazig University (Banha Branch), Cairo, Egypt, 2005-present.
- Visiting Professor, School of Architecture and Environmental Design, Arizona State University, Tempe, Arizona, USA. 2004
- Adjunct Asst. Professor, Department of Architecture, Misr International University (MIU), Maadi, Cairo, Egypt. 2003
- Adjunct Asst. Professor, Department of Architecture, Higher Institute of Engineering, Tenth of Ramadan City, Egypt, 1997-1998.
- Asst. Professor, Department of Architecture, Faculty of Engineering, Zagazig University (Banha Branch), Cairo, Egypt, 1996-2005.
- Lecturer, Department of Architecture, Faculty of Engineering, Zagazig University (Banha Branch), Cairo, Egypt. 1995
- Visiting Scholar & Research Associate, School of Architecture, North Carolina State University, Raleigh, NC, USA, 1994
- Visiting Scholar & Research Associate, School of Architecture, Arizona State University, Tempe, Arizona, USA, 1994-1995
- Teaching & Research Assistant, Department of Architecture, Faculty of Engineering, Zagazig University (Banha Branch), Cairo, Egypt. 1983-1993

## **PUBLICATIONS/ RESEARCH EXPERIENCE IN DIFFERENT JOURNALS & UNIVERSITIES:**

Published more than 10 scientific papers in the fields of Energy Saving in Architecture, Building Envelope, Solar Energy and Green Architecture in U.S.A. and Egypt.

## **WORKSHOPS/ PROFESSIONAL STUDIES:**

Attended several workshops and professional studies in the fields of reviewing construction documents, Glass Selection, Thermal Insulation, Bioclimatic Parameters, Building Environmental Science, Energy Analysis Techniques and passive heating in buildings in U.S.A., Egypt and Saudi Arabia.

## **COMPUTER SKILLS**

*Computer Language:* Visual Basic for Applications.

*Computer Energy Simulation:* Building Energy Analysis using DOEII2.2E, Energy-10 V. 1.5, Energy Plus V.1.0.2, Solar 5 and Window 5.0, E-Quest V.3.63.

*Computer Applications:* Revit 2013, Sketchup 2014, Microsoft Office, Windows.

### Production:

- Development of Computer Program to analyze and evaluate Climatic Data on the Bioclimatic Chart. Data presented in both graphic and tabulated formats, 1990.
- Development of Computer Program using Visual Basic for Applications to calculate and evaluate Solar Angles and their Intensities for any Location and Date, 1996.

## **OTHER RELEVANT EXPERIENCES**

## **UNIVERSITY SERVICES**

### **Academic Administrative Assignments:**

- Member of Environment and Public Service Committee
- Development of postgraduate Environmental Studies Curriculum
- Development of Proposal Design for Laboratory and Lecture Halls, College of Science
- Advising: Graduate Students Research Advisor on topics related to Building Envelope Environmental Performance.

## **AWARDS/ HONORS**

- Grant of "Junior Scientist Development Visits", Six-month Research Visit - Ministry of Scientific Research, ( spring 2004).
- Third Prize, Housing Design Competition, Suez Housing Authority, Suez City, Egypt, May 1998.
- Grant of Graduate Research and Teaching Assistant at Faculty of Engineering and Computer Science, Center of Building Studies, Concordia University, Montreal, Canada. (Fall 96)
- Peace Fellowship, Two-year grant, USAID, Cairo, Egypt.( 1994-1995)

## **PROFESSIONAL AFFILIATIONS**

Member of a number of architecture and solar energy societies in U.S.A. and Egypt.

## **EDUCATION**

### **Doctor of Architecture, 1996.**

Doctoral Dissertation: "Climate as a Factor in the Design and Planning of Building Clusters: Modeling Solar Radiation at Different Orientations." Zagazig University – Banha Branch, Faculty of Engineering @ Shoubra, Department of Architecture, Cairo, Egypt.

### **Master of Architecture, 1990.**

Master Thesis: "Environmental Guidelines for Designing Residential Clusters."  
Zagazig University – Banha Branch, Faculty of Engineering@Shoubra, Department of Architecture, Cairo, Egypt.

### **Bachelor of Architecture, 1981.**

Zagazig University – Banha Branch, Faculty of Engineering @ Shoubra, Department of Architecture, Cairo, Egypt.

## **PERSONAL DATA**

Date and place of Birth: 9 – 9- 1959 – Cairo - Egypt

Marital Status : Married, with 3 Children

Home Address: 11 Gamal Nouh St.– Alamaza, 11341, Cairo, Egypt.