

# ***SYED SALMAN MOBEEN***

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## **OBJECTIVES**

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To teach in a reputable engineering university and to perform valuable researchwork in the areas of structural engineering and material science.

## **MAJOR INTEREST**

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In the subjects of structural analysis, reinforced concrete design and mechanics of solids as well as to carry out extensive researchwork related to earthquake engineering.

## **EDUCATION & PROFESSIONAL QUALIFICATIONS**

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2002	<i>M.Sc. (Thesis based) in Structural Engineering</i> , from University of Alberta, Edmonton, Canada
1993	<i>B.E. in Civil Engineering</i> , from N.E.D. University of Engineering & Technology, Karachi, Pakistan

## **THESIS AND PROJECT TITLES**

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M.Sc.	Cyclic Tests of Shear Walls Confined with Double Head Studs
B.E.	Pseudo-ductility of Natural Fiber Reinforced Concrete

## **PUBLICATIONS**

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**“Double-Headed Studs in Shear Walls”**  
(published in **“Concrete International”**, March 2005 issue)

## **EXPERIENCE**

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<i>June, 2005 till date</i>	<b>Assistant Professor</b> Civil Engineering Department N.E.D. University of Engg. & Technology, Karachi
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Feb. 2003 to June, 2005

**Structural Design Engineer**

“Engineering Associates “

Consulting Engineers and Project Planners, Karachi.

Projects & Assignments

**Lyari Expressway, NHA, Karachi.**

The project mainly comprises of the bridges as part of the highway that runs across the city, along Lyari river. All proposed bridges pass over the existing city bridges. Following were the specific tasks.

- Design of sub structures of bridges with super structure spans ranges from 25 to 46 meters using **“AASHTO LRFD”** and **“West Pakistan Highway Code”**. The project mainly comprises of the bridges proposed over existing city bridges. Specifically involved in the design of bridges at **“Tinhatti”** and **“Sir Shah Suleman”** interchanges
- Part design work of super structures with structural spans ranges from 25 meters to 46 meters, using **“AASHTO LRFD”** code. Specifically involved, as a team member, in the grillage and line beam analysis using **“STAAD III”** finite element software

**Crescent Steel Workshop, Nooriabad.**

The project comprised of a workshop proposed for the testing of steel pipes using ultra violet rays. The structural framing of the workshop comprised of steel gable frames with cross braces required for lateral stiffness. The design code and software used were **“AISC”** and **“STAAD III”**. Following were the specific tasks.

- Design of gable frames sections under gravity and wind loads
- Design of gantry crane girders
- Design of lateral bracings against wind and seismic loads

**Jumairah Beach Residence, Dubai.**

The scope of work within the office domain comprises of seven high rise R.C.C. towers along Jumairah Beach, Dubai. The tower heights range from 17 to 52 stories and were mainly assigned for residential and commercial use. Following were the specific tasks

- Preliminary sizing and structural framing of structural elements of four towers
- Development of three dimensional models using **“ETABS 8”**
- Analysis and design of floor plates using **“SAFE 7”**
- Analysis & design of R.C.C. Pile-raft foundations.

Design codes used were **“UBC-97”** and **“BS-8110-97”**

Oct.2002 to Jan. 2003

**Assistant Professor**  
Civil Engineering Department  
N.E.D. University of Engg. & Technology, Karachi

Responsibilities

- Preparation of lectures and laboratory assignments for **“Strength of materials”**

Sept.1999 to Sept. 2002

**Teaching & Research Assistant (M.Sc. Student)**  
Civil & Environmental Engg. Department.  
University of Alberta, Edmonton, Canada.

Responsibilities

- Marking of course and laboratory assignments of subject including Structural Analysis, Strength of Materials and R.C.C. Design of undergraduate students.
- Laboratory works related to the fulfillment of M.Sc. Thesis including preparation and testing of R.C.C. shear walls

Jul. 1994 to Oct. 1998

**Structural Design Engineer**  
Loya Associates  
Consulting Engineers & Project Planners, Karachi.

Projects & Assignments

Projects Involving Bridge Design

The specific task was the design of sub-structures of different bridges in Pakistan using **“AASHTO”** and **“West Pakistan Highway Code”**. Deck slab design using **“SAFE”** was also under the design scope in some bridges. Following is the brief description of the Bridges designed

- Design of sub-structure for **Bridge over the River Indus at Shorkot**, with structural spans of 44 meters
- Design of sub-structure for **Bridge over the River Indus at Sehwan**, with structural spans of 44 meters
- Design of sub-structure for **Bridge at Tariqabad railway crossing, Faisalabad**, with structural spans of 16 to 30 meters
- Design of sub-structure and deck slab for 17 bridges in **Makran Coastal Road Project**, with structural spans of 16 to 30 meters
- Design of sub-structure and deck slab for **Bridge over Thado-Naloh, Sindh**
- Planning and design of **12 meter RCC Bridge and Culverts in Manshra-Chilas Road Project**
- Rehabilitation of **Bridge on Brewery road over Lora Nallah, Quetta**

### Industrial and Miscellaneous Projects

- Preliminary tender work and detail design and site top supervision for **15 MW Diesel Power Plant** at Nooriabad, for Dadabhoy Energy Supply Co. Ltd. Generator foundation design was not in the scope
- Planning and preliminary tender work for **115 MW Diesel Power Plant** at Raiwind, for Southern Electric Power Company Limited (SEPCOL), Canada
- Rehabilitation of the supporting system of **80 tones sugar tanks** in **Mirza Suger Mills, Badin.**
- Design of **15 Steel Canopies** for **Shell Pakistan.**
- Analysis and design of **Raft Foundation** and **Flat Slabs** for **Ground+12** storied residential apartments **“Syma Heights”** at **Clifton, Karachi.**

Sept. 1993 to April. 1994

**Structural Design Engineer**

Vazir Ali Associates

Consulting Engineers, Karachi.

Projects & Assignments

- Rehabilitation of Saint Joseph school, Karachi.
- Design and supervision of residential bungalows.

### **KNOWLEDGE OF ENGINEERING SOFTWARE**

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ABAQUS 5.8  
ETABS 8  
SAP 2000  
SAFE 7  
STAAD III  
S-FRAME  
MICROFEA

### **KNOWLEDGE OF APPLICATION SOFTWARE**

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MS WORD 2000  
MS EXCEL 2000  
MS POWERPOINT 2000  
MS PHOTO EDITOR 2000  
AUTOCAD 2000

### **PERSONAL DATA**

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DATE OF BIRTH : 1<sup>st</sup> Dec 1969  
NATIONALITY : Pakistani  
RELIGION : Islam

### **REFERENCES**

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References will be available upon request