



POSITION Chief Executive Officer & Principal Structural Engineer
NAME OF FIRM Architectural and Civil Engineering Services (ACES)

MUHAMMAD KHALIQ UR RASHID KAYANI

DATE OF BIRTH 25 Aug 1955

NATIONALITY Pakistani

QUALIFICATIONS:

EDUCATION

- : Ph.D. (Civil Engineering), University of Illinois at Urbana-Champaign, USA, 1992
- : M.S. (Civil Engineering), University of Illinois at Urbana-Champaign, USA, 1990
- : B.Sc. (Civil Engineering), Military College of Engineering, Risalpur, Pakistan, 1982
- : F.Sc. Cadet College Hasan abdal, Pakistan, 1973

SPECIALITIES

- : Structural Analysis and Design
- : Earthquake Engineering and Structural Dynamics
- : Buried Structures
- : Forensic Engineering
- : Strengthening and Rehabilitation of Structures

EXPERIENCE

EMPLOYMENT

- : Pakistan Army (Brig) 1975 - 2006
- : ACES 2007-
- : NUST as Faculty Member 1993-

INFRASTRUCTURE PLANNING, DESIGN AND CONSTRUCTION SUPERVISION

- a. Planning and infrastructure design of 6 cantonments, small to medium size, as the Chief Consulting Officer at Directorate of Design and Consultancy, General Headquarters (GHQ) and subsequent monitoring of the construction quality and progress.
 - b. Planning and design of an Aviation base and residential colony for Pakistan Army. The project included runway, taxiways, parking hangars, ATC structures and other
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related facilities as a major facility for war against terrorism. The housing colony included single residential units and apartment complexes.

- c. Design, Construction supervision and construction of a Training Academy for Strategic Planning Division. A unique experience of working with international collaborations, design approvals and construction quality of international standards. The economical design and construction practices have been devised. The construction work is in progress.
 - d. Planning, Design, Construction supervision and interior decorating of ISI Headquarters Building in Islamabad.
 - e. Master planning, infrastructure design, buildings and related facilities design for a low cost housing project in KP. The project consists of 2500 apartments of different categories.
 - f. Master planning, infrastructure design and construction of a 2000 kanal housing society in Islamabad. It was a unique experience of working in environments when the client as well as the contractor is not interested in getting the quality work done at site.
 - g. Planning, infrastructure design, development and maintenance of Underground Facilities at a number of locations. Each project required state of the art provisions for functionality, safety and secrecy. The details are
 1. Design, physical tests, and construction of field defenses against conventional weapons.
 2. Design, planning and construction of tunnel structures to function in nuclear environments.
 3. Planning, design and construction of underground facilities. These included cut and cover structures designed against conventional and NBC weapons attacks.
 4. Design and testing of structural components to see the affects of explosive and projectile munitions.
 - h. Design of Lahore Mass Transit System as a local consultant with the French consultant SYSTRA for planning and design.
 - i. Project planning, infrastructure and civil engineering design of ISI Complex in Muzaffarabad, AK. The work is in progress and will be completed in a year's time.
 - j. Planning, design, testing and construction of buildings against explosive and other similar attacks.
 - k. Design and construction of Pindi Bhattian-Faisalabad Motorway (M-3). All the structures of the Motorway were designed which included bridges, culverts, and underpasses.
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- l. Evaluation and strengthening of 18 Storey fire damaged Shaheed-e-Millat Secretariat Building in Islamabad.
- m. Healthcare and Educational Facilities Buildings in Earthquake affected areas of AK and KP.

COMMERCIAL PROJECTS

- a. Design and construction of Muiz Plaza, F-7, Islamabad. The project was planned, designed and constructed. The building is currently occupied by TELENOR.
- b. Planning, design and supervision of AMMAR Plaza in F-7 Sector, Islamabad. The project was done as a joint venture with Haseeb Investments as 25% equity partner.
- c. WAYZGOOZ Park at Kallar Kahar is an amusement park in about 250 acres of privately owned land. The project consists of a 100 Room Hotel, a lake developed with 110 ft high dam, amusement area housing roller coasters and other latest rides, water sports, commercial area and other adventure activities. The park will be opened to the public in Jul 2011. Planning, infrastructure and building designs, landscape design, supervision and management of the construction activities have been provided by ACES.
- d. Design, management and construction supervision of 15 storey commercial building in DHA Lahore, Global Haly Tower.
- e. Design and construction supervision of a shopping and office
- f. Design, construction supervision of Ibrahim Towers, a building complex worth Rs. 3.5 B in Zaraj Housing Society, Islamabad. Construction will commence shortly.
- g. Planning, design, construction and Financing of 'Home of Aces'. The project is ready to be launched which is totally owned and funded by ACES in DHAI, Islamabad.

COUNTRIES OF WORK

EXPERIENCE : Pakistan, Saudi Arabia, USA, UAE

SPECIAL ASSIGNMENTS

SEISMIC PROVISIONS OF PAKISTAN BUILDING CODE :

- ⇒ Leading member of Core Group formed by Pakistan Engineering Council. Worked as Chairman/member of Sub-committees for
- a. Structural Analysis
 - b. Reinforced concrete structures
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c. Masonry Structures

- Earthquake Engineering Education :
- ⇒ Worked as head of the Sub-committee for approval of final draft.
 - ⇒ Organized and lectured courses in Earthquake Engineering and Finite Element Analysis, arranged by Pakistan Engineering council at
 - LAHORE
 - ISLAMABAD
- Design Evaluation Committees of Pakistan Engineering Council :
- ⇒ Headed a no of committee formed the design evaluation and other subjects related to Civil Engineering works.
- National University of Sciences and Technology (NUST) :
- ⇒ Faculty Member since 1993.
 - ⇒ Graduate courses.
 - ⇒ Finite Element Methods in Engineering.
 - ⇒ Reinforced Concrete structures
 - ⇒ Prestressed Concrete Structures
 - ⇒ Structural Dynamics and Earthquake Engineering.
 - ⇒ Research Work
 - High strength concrete
 - High strength concrete beams and columns
 - Reinforced Concrete Joints
- Member Dispute Review Board :
- Benazir Bhutto International Airport Project, Package 1, Islamabad. Pakistan
 - Benazir Bhutto International Airport Project, Package 8, Islamabad. Pakistan
 - Multan International Airport.

LANGUAGES WITH DEGREE OF PROFICIENCY : Excellent in reading, writing and speaking English, Urdu and Punjabi

PEC Registration No : Consult/1407

Total Experience : 35 Years
