

# IRFAN AHMAD

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## PROFILE

A highly experienced engineer with more than 40 years of professional experience mainly in electrical system design, industrial automation, large T&D projects (design, acquisition and execution), network consultancy, renewable energies (Wind & Solar) and general issues.

## EDUCATION

MS Electrical Engineering, Technical University Aachen, West Germany (1975-1982)

BE (Hons) Electrical Engineering, Engineering College, University of Peshawar (1967-1971)

## PROFESSIONAL EXPERIENCE

### Independent Energy Consultant since 2014

#### Major current engagements:

- Technical Advisor, HydroChina Dawood Power (Pvt) Ltd. (HDPPL)
- Technical Advisor T U D Solar (Pvt) Ltd.
- Consultant to Renewable & Alternative Power Co. Ltd. (RAPCO)

### At Siemens Pakistan (1986 – 2014)

Year	Position	Major Portfolio
2013-2014	Technical Advisor	Smart Generation Solutions – hybrid generation
2011-2013	<b>Vice President</b> and Director Renewable Energies	Renewable Energy – Solar, Wind & Hydro
2008-2011	Business Head Renewable Energies & Services	Large Wind/Solar Projects, Network Consultancy, T&D Asset Management, Energy Audits
2001-2008	Business Head T&D Services	EBoP Wind Power Plants, Network Consultancy, HV SS and Grid Systems Automation, Energy Audits
1998-2001	Manager T&D Projects	Design, Acquisition & Execution of large T&D Projects
1991-1997	Project Manager Power Gen.	Industrial & Utility Power Plants, Small PV Solar Plants
1988-1990	Group Leader Process Automation	Power Plant and Industry Automation
1986-1988	Design Engineer	Motor starters, VSDs and LV Distribution Systems

### In Germany (1981-1985)

- Research Assistant: Designing electronic equipments for research, not available in the market.

### In Pakistan (1971-1974)

- TV Engineer at Pakistan Television (PTV) in Lahore and Rawalpindi (1972-1974)
- Senior Lecturer, Engineering College, University of Peshawar (1971-1972)

## **ADDITIONAL INFORMATION**

### **Academic achievements:**

- DAAD Scholar at RWTH Germany for MS Engineering
- First class first (Gold Medalist) in BE Electrical Engineering
- Overall 2<sup>nd</sup> Position in the BISE Intermediate Examination
- Overall 5<sup>th</sup> Position in the BISE SSCE Examination

### **Teaching Experience:**

- Started professional career as Senior Lecturer (Gazetted Class 1 officer) at the Engineering College, University of Peshawar in 1971.
- Visiting faculty for Telecommunication and Control Systems from 1989 till 1991 at the Pakistan Navy Engineering College Karachi (now NUST). Also conducted a special course on Variable Speed Drives for grad students and faculty members.
- Visiting faculty for Energy Systems & Audit at Habib University Karachi in 2015

### **Professional Engagements:**

- Made several technical presentations at National & International levels. Given below are some of the topics on local issues on which presentations were made in the past 24 months:
  - On Remote Monitoring requirements and start-up automation of Wind Power Plants in December 2019 at HDPPL.
  - On Real Issues of Wind Power Projects at Energy Update 4th Wind Summit in August 2019
  - On Prospects of grid forming inverters market in Pakistan at KACO New Energy, Germany in December 2018
  - On The Pakistan Energy Challenge at FPCCI Karachi in December 2018
- Written several technical & business related articles in various local magazines and journals.

### **Current Memberships of Professional Institutions and Forums**

- Member Advisory Board: Usman Institute of Technology
- Member Industrial Advisory Board, Mehran University of Engineering & Technology
- Member of Board of Trustees of ICT Endowment Fund of Mehran UET.
- Fellow of the Institution of Electrical & Electronics Engineers Pakistan (IEEEP)
- Chairman, IEEEEP Karachi Centre.

### **Courses:**

Attended several Management & Technical Courses both in Pakistan and abroad.  
Delivered presentations at various business related conferences in Europe & USA.

### **Languages**

- Urdu: Fluent in written and spoken Urdu
- English: Fluent in written and spoken English
- German: Good in written and spoken German
- Punjabi: Working knowledge

### **Extra-curricular**

- Regular member of club standard Badminton & Table Tennis teams.
- Runners up in All Punjab Table Tennis Tournament in 1973
- Represented Peshawar Division in the National Badminton Championship in 1968

### **MAJOR SPECIAL EXPERIENCES**

- Carried out Technical Due Diligence studies of Faisalabad Electric Supply Company and Karachi Electric Supply Company for exact determination of technical losses and proposing methods for their reduction.
- Designed the Electrical Balance of Plant (EBoP) for Wind Power Projects based on local requirements and keeping in view the limitations of Pakistani electrical industry and utilities.
- As a member of the investors team worked with NTDC and AEDB to generate a comprehensive “Grid Code” for Wind Power Plants based on local requirements.
- Prepared the Power Sector Report for a comprehensive Integrated Energy Plan 2015 for Pakistan as member of Pakistan Business Council Energy Experts Group.
- Technocrat Member of Panel of Experts Committee for RE Projects, Energy Department, Govt. of Sindh for 5 years (2014-2019).