

### **EDUCATION**

- **PhD** Wayne State University, Detroit, Michigan, USA, August 2009, GPA: 3.70
- **MS** Wayne State University, Detroit, Michigan, USA, December 2003. GPA: 3.74
- **BE in Mechanical Engineering**, NED University of Engineering & Technology (NED UET), Karachi.

### **PROFESSIONAL & RESEARCH EXPERIENCE**

- **Apr 2010 – date** Chairman, Department of Mechanical Engineering, NED UET.
- **Dec 2010 – date** Professor, Department of Mechanical Engineering, NED UET
- **Oct 2009 – Dec 2010** Associate Professor, Department of Industrial & Manufacturing Engineering, NED UET.
- **May 2005 – Oct 2009** Assistant Professor, Department of Industrial & Manufacturing Engineering, NED UET.
  - Worked for Product Development Center (PDC). Produced prototypes on FDM (Fused Deposition Modeling) machine as per customers' drawings. Customers included Syed Bhais (Pvt) Ltd., Dawood Yamaha Ltd., Simcon International, and OJ Engineering Services.
- **Sep 2007 – Aug 2009**: Teaching Assistant for IE 6005 Automotive Engineering Statistics [Ford Motor Company - Engineering Management Masters Program (EMMP)], IE 6610 Introduction to Six Sigma, IE 7210 Robust Design, IE 7610 Fundamentals of Six Sigma, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA
- **May 2006 – Aug 2007**: Research Assistant, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA.
- **Aug 1999 – Aug 2001** Lecturer, Department of Mechanical Engineering, NED UET.

### **PUBLICATIONS**

- Siddiqui, M., Yang, K. (2010), 'Effective Data Analysis Methods for Incomplete Two-Level Factorial Experiments', *Int. Journal of Experimental Design and Process Optimisation*, Vol. 1, No. 4, pp.348–364.
- Siddiqui, M., Yang, K. (2010), 'Adaptive Sequential Experimentation Technique for 3<sup>3</sup> Designs Based on Revised Simplex Search', *Int. Journal of Experimental Design and Process Optimisation*, Vol. 1, No. 4, pp.296–314.
- Siddiqui, M., Yang, K. (2010), 'Split Plot Experiments with Time Trends in Easy-to-Change Factors', *International Journal of Quality Engineering and Technology*, Vol. 1, No. 3, pp 317-338.
- Siddiqui, M. and Yang, K. (2009), 'Adaptive sequential experimentation based on revised simplex search', *Int. Journal of Experimental Design and Process Optimisation*, Vol. 1, Nos. 2/3, pp.105–122.

### **BOOK CONTRIBUTION**

- *Design for Six Sigma* by Kai Yang & Basim El-Haik, Chapter 12, Fundamentals of Experimental Design, Sec. 12.6 Incomplete Factorial Experiments, McGraw-Hill Companies Inc 2009.

### **COURSES TAUGHT**

Heat Transfer

Steam Generators & Steam Turbines

Renewable Energy

Advanced Statistics

Design and Analysis of Experiments (DOE)

Six Sigma Methodologies

Industrial Quality Control

### **HONORS & AWARDS**

- **Outstanding Teaching Assistant Award** for the year of 2008, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA
- **Best Presentation Award**, Graduate Research Symposium, 2007, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA
- **Graduate Teaching Assistant Scholarship**, Sept 2007 – August 2009, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA
- **Graduate Research Assistant Scholarship**, May 2006 – August 2007, Industrial & Manufacturing Engineering Department, Wayne State University, Detroit, Michigan, USA
- **Academic Excellence Scholarship**, 2001, Industrial & Manufacturing Engineering Department, Bradley University, Peoria, Illinois, USA.
- **Meritorious Scholarship**, 1993 to 1994, for securing 22<sup>nd</sup> position in SSC Examinations in Karachi Board.

### **MEMBERSHIPS**

- PEC (Pakistan Engineering Council)
- IEP (Institution of Engineers Pakistan)