

**MOHAMMAD ABDUL AZIZ IRFAN, PhD, CEM**

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## **SKILLS SUMMARY**

- Experienced with ABET accreditation.
- Exceptional in Engineering Education, and a qualified Instructor for 4MAT training.
- Proficient in building research and industrial service Laboratories.

## **EDUCATION**

**Fulbright** Postdoctoral Scholar, Department of Materials Science and Engineering, Case Western Reserve University, Cleveland, OH, USA. September 2008 – August 2009.

**Ph.D.** in Mechanical and Aerospace Engineering, Case Western Reserve University (CWRU), Cleveland, OH, USA. August 1998. CGPA 4.0

## **CERTIFICATIONS**

**FANUC Handling Tool Operations and Programming**, Kent State University, May 12-15, 2025,

**Programmable Logic Controller Training: Studio 5000 Logix Designer Basics**, Kent State University, May 19-22, 2025.

**Proficiency Certificate in Greenhouse Gas Accounting** from GHG Management Institute, April 2023.

**Certified Energy Manager** and **Certified Trainer (CEM, USA)**, May 2016, Nov 2016.

## **CURRENT POSITION**

**Associate Professor**, *Mechanical Engineering Technology*, Kent State University, Trumbull Campus, OH, USA. (Aug 2024 to current).

Responsible for starting the *Mechanical Engineering Technology* program at the Trumbull campus, establishing labs, and creating relationships with industries and schools to foster professional development and enrollments in the nascent program.

**Lead Faculty**, *Mechanical Engineering Technology Program* at Kent State University, Trumbull and Tuscarawas Campuses. (Aug 2025 to current). Responsible for program leadership and ABET accreditation.

## **TEACHING EXPERIENCE (Selected)**

**Professor**, *Department of Mechanical Engineering*, University of Engineering & Technology, Peshawar, Pakistan, June 2017-May 2022. Teaching and grading were done according to *Outcome-Based Learning*.

**Professor, Department of Mechanical Engineering, Qassim University, Saudi Arabia, September 2010- June 2017.** Responsible for teaching undergraduate courses and serving on various departmental committees. **Participated in ABET accreditation.**

### EDUCATION MANAGEMENT EXPERIENCE (*Selected*)

**Dean, Faculty of Mechanical, Chemical, and Industrial Engineering, University of Engineering and Technology, Peshawar, Pakistan, June 2018- June 2021.** Responsible for leading teaching and research excellence across departments. Led accreditation process for all departments.

**Director Technology Incubation Center, NWFP University of Engineering & Technology, Peshawar, Pakistan, February 2010 - August 2010.** Fostering Technology Incubation by providing nurturing services to young entrepreneurs. Providing Technology Transfer and Commercialization opportunities for innovative faculty and students.

### PROFESSIONAL TRAININGS (*Selected*)

- **Certified Energy Manager (CEM, USA), 2016.**
- **Academia to Industry Technology Transfer,** Training provided by the **US Department of Commerce** at Washington, DC, Oklahoma State University, and Georgia Tech, 2010.

### INDUSTRIAL EXPERIENCE

**Overseas Consultant Engineer, Peshawar, Pakistan, for North American Manufacturing Co., Cleveland, OH, USA, August 1999 to February 2000.** Conducted research for *Product Design & Development*.

**Consultant Engineer, North American Manufacturing Co., Cleveland, OH, USA. January 1998 to July 1999.** Worked on Burner Design and **Design for Manufacture**.

### RESEARCH GRANTS (*Selected*)

- Establishment of the Center for Industrial and Building Energy Audits, HEC, Pakistan, PKR 11 M grant.
- Energy Audits and Energy Efficiency Plans for Local Industry, National Grant, NSTIP, SAR 2 million. 2014-2016, (Saudi Arabia).
- Industrial Waste Heat Recovery, National Grant, SABIC, SAR 40,000. 2015, (Saudi Arabia).
- Effect of enhanced cooling rates on 3D porosity measured by CT Scan in Permanent Mold Castings (2012-2013) Qassim University, SAR 80,000, (Saudi Arabia).

### PROFESSIONAL MEMBERSHIPS

- Member of the Society of Manufacturing Engineers (SME), USA.
- Member of the Association of Energy Engineers (AEE), USA.