

DR. ENGR. MUHAMMAD ISHFAQ KHAN

Lecturer in Mechanical Engineering | PhD | Professional Engineer (PEC)

PROFILE STATEMENT

An innovative educator, researcher, and Professional Engineer (PEC) with over 14 years of blended professional, industrial, and entrepreneurial experience. Formally trained in Sweden to meet international sustainability demands, specializing in CFD, Modal Analysis, and Renewable Energy. Strongly committed to Outcome-Based Education (OBE) and industrial R&D.

PROFESSIONAL EXPERIENCE

- **Lecturer (Mechanical Engineering)** | International Islamic University, Islamabad (*June 2014 – Present*)
Delivered core graduate/undergraduate courses under Washington/Sydney Accords. Active member of Departmental Quality Assurance (DQAC) and Graduate Research Committee (GRC). Held managerial roles including In-charge Evening Program, Lab Manager, and Industrial Liaison member.
- **Lecturer** | Swedish College of Engineering & Technology (UET Taxila Sub-Campus), Wah Cantt (*Dec 2012 – May 2014*)
Managed final year project activities as FYP Coordinator and compiled key accreditation reporting for PEC.
- **Assistant Manager** | Maple Leaf Cement Factory, Mianwali (*July 2007 – August 2008*)
Served as ISO Internal Auditor for the Mechanical Department. Managed Crusher Area production logistics and led the Reliability Department for the White Cement Line. Supported ERP inventory implementation.

EDUCATION & CREDENTIALS

- **Ph.D. in Mechanical Engineering Design** | International Islamic University, Islamabad (*2014 – 2021*)
- **MS in Mechanical Engineering (Structural Mechanics focus)** | Blekinge Tekniska Högskola, Sweden (*2008 – 2012*)
- **B.Sc. in Mechanical Engineering** | University of Engineering and Technology (UET), Lahore (*2003 – 2007*)

RESEARCH, GRANTS & DISTINCTIONS

- **Academic Mentorship:** Currently supervising multiple active graduate researchers focusing on Forest Biomass Renewable Energy and agricultural Composite Materials targeting Q1/Q2 journal publications.
- **Funded Projects & Awards:** Secured dedicated funding grants for high-impact engineering projects including a Phase Change Solar Heat Cell and an automated Cricket Bowling Machine. Earned multiple 1st and 3rd position national distinctions at All-Pakistan Final Year Project Competitions (FETEX, University of Gujrat).
- **Publications:** Authored peer-reviewed research papers in HEC-recognized journals focusing on aerodynamics, landing gear drag reduction via URANS numerical fluid investigations, and renewable energy conferences.

SKILLS, ENTREPRENEURSHIP & INTERESTS

Technical Skills & Software: ANSYS Fluent, MATLAB Partial Differential Equation Toolbox, Finite Element Methods (FEM), CFD, Modal Analysis, Tribology, ISO Auditing.

Languages: English, Urdu, French.

Entrepreneurship & Activities: Founder of Bay Engineering Company (SMC); pioneer in local vertical-stacking tunnel agricultural management.

Hobbies: Solo motorbike expedition touring, wilderness cooking, and photography.

REFERENCES

Verified academic credentials, registration details with the Pakistan Engineering Council (PEC), and references are available upon request.