Brief CV

Name	Muhammad Iqbal Hussain	中文名		
Gender	Male	**Title** (Pro./Dr.)	Dr.	
Position （President…）	Senior Lecturer	**Country**	Malaysia	
University/ Department	Mechanical Engineering Technology Faculty of Engineering Technology,			
Personal Website	Nil			
Research Area	Quality Management: ISO 9000, Six Sigma Quality, Lean Six-Sigma Manufacturing Systems; Lean Manufacturing, Advanced Manufacturing Systems Precision Metrology; Machine Tool Metrology, Gear Metrology, Coordinate Measuring Machines Process Improvement; Universal Measuring Machines Process Improvement; Statistical Process Control, Manufacturing Process Capability Analysis, Calibration of Measuring and Test Equipment, Reliability and Maintainability of Calibration Record; Composite Material Manufacturing Process Improvement. Quality Improvement.			

Brief introduction of your research experience:

Muhammad Iqbal Hussain currently works as Senior Lecturer at the Faculty of Engineering Technology, Universiti Malaysia Perlis (UniMAP). His highest qualification is PhD (Manufacturing Engineering, Universiti Malaysia Perlis). Before he became an academic, Iqbal worked at Millat Tractors Limited (MTL) is a leading and progressive organization in automobile sector of Pakistan engaged in the manufacturing of agricultural tractors and machinery, generators sets, fork lifter trucks, combine harvesters and material handling equipment with the collaboration of Massey Ferguson (is an American-owned major manufacturer of agricultural equipment), Perkins Engines Cos. of United Kingdom U.K and M/s CAMCO International and Anhui Forklift Truck Group China for 20 years as quality control inspector and executive in charge of quality control labs, where he was responsible for calibration of measuring & test equipment: periodic calibration & control techniques of various types of gauges, inspection fixtures & testing equipment by using Universal Measuring Machine (UMM with ½ Micron accuracy) & Coordinate Measuring Machine (CMM), inspection of very precise and critical Bought Out Finished (BOF) parts on electronic Universal Measuring Machine UMM to ensure that the consistent quality components are being received from national and international suppliers at the in-coming stage.

He also worked on Gear Metrology: spur & helical gear quality checking on double flank “Gear Roll

Tester" (check total composite error, tooth to tooth composite error, total tolerance, and radial centre distance variations & concentricity error of gears with master. Involute Gear Tester (check alignment / lead / helix error, involute / profile error). Manual Measurements: Base Tangent Length (BTL) over specified teeth, tooth thickness and measurement over pins. Profile Projector: measurement on profile projector such as profile measuring, cutting tools angle measurement, cross edge angle measurement, major and minor diameters of threads & gears. Mechanical Testing: destructive & non destructive testing: hardness testing such as Brinell, Rockwell and Vickers. Tensile Testing to determine ultimate tensile strength (UTS), elongation % age, yield strength & reduction in area etc. Non-destructive testing (NDT) through ultrasonic flaw detector. Rubber Testing: rubber testing components such as: hardness with Durometer (Shore-A), burst test of rubber hoses, volume expansion and accelerated aging Paint Testing: testing of the painted, primered, and plated and phosphate components to determine: gloss of the painted components, adhesiveness and Salt Spray Test. He was also involved in the development, implementation, maintaining and auditing of ISO 9000 an international quality management system In Laboratories & Gauge Control of Millat Tractors Limited. He also worked on the development & implementation of ISO 14001. He also worked with the IT professionals of the organization as a QC coordinator for the development of Data Base Management Information System for Quality Control Bought Out Finished components supplied by the associates Vendors & Suppliers. Also worked as calibration of measuring & test equipment consultant for Qadbros Engineering (Pvt) Ltd. (a group of industries) 9-A, Link Ravi Road, Badami Bagh, Lahore -54000 Pakistan.

In the academia, he carries out teaching, research, and consultancy duties. Iqbal's publication list covers many aspects of Manufacturing and Total Quality Management. He reviews numerous research proposals, undergraduate and postgraduate theses, and research papers submitted to conferences and journals. In his teaching capacity, Iqbal guides more than 100 students at any one time. He specializes in Manufacturing Technology and Total Quality Management. He teaches classes on Management and Control of Quality, Manufacturing Systems, Quality System, Lean Manufacturing, Engineering Analysis, Operations Management, Manufacturing Technology, Industrial Engineering, Metrology & Quality Control, Production Planning & Scheduling, Project Management, Introduction to Manufacturing Technology, and Design of Experiments: Taguchi Methods for undergraduates and postgraduates. With over 30 years of academic and industrial experience under his belt, Iqbal is often invited to conduct training programs in topics such as failure mode & effect analysis (FMEA), control charts, six sigma, lean manufacturing, and calibration for the automobile and sugar industries in Pakistan, and the composite materials manufacturing industry in Malaysia. He has membership of professional bodies such as the Industrial Engineering and Operation Management (IEOM Society; membership no: PH-142-9238) and the JEC - Center for Promotion of Composites Material and Manufacturing- France, Paris (subscriber no: 06233).

*******All the columns need to be filled in.**