

Mohammad Younus

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SUMMARY OF QUALIFICATIONS

- Hands on experience with and exposure to American University Education.
- More than eleven years of qualitative experience in teaching, leading and motivating undergraduate students in learning the basics of Mechanical Engineering.
- Developed and implemented programs to encourage student participation.

RESEARCH INTEREST

Robotics and Automation and Development of Mobile Robotics Platform for different terrains.

EDUCATION

Rajiv Gandhi Pradyogiki Vishwavidyala, Bhopal, India

Doctorate of Philosophy (Ph.D.)

Pursuing

June 2014

Title approved by Research Degree Committee.

Worcester Polytechnic Institute, Worcester, MA, USA

Master of Science in Mechanical Engineering

GPA 3.6/4.0

May 2010

Courses taken: Finite element method and application, Computational fluid dynamics, Impact finite element analysis, Designing and managing for six-sigma processes, Mechanical vibrations, Incompressible fluid dynamics, Applied nonlinear control.

Maulana Azad College of Technology (MANIT), Bhopal, India

Master of Technology in Engineering Materials

February 2002

Thesis:

Two-Body Abrasive Wear Behaviour of Al-Si (ADC12) alloy – SiCp composites.

The project was performed at Regional Research Laboratories, Bhopal.

Successfully conducted experiments which proved that the ADC12 alloy composites reinforced with SiC particle have much better wear resistance, than the alloy itself. Further research was conducted in extending the use of the composite material in wear resistant components like automobile brakes, drums and rotors.

Barkatullah University, Bhopal, India

Bachelor of Engineering in Mechanical Engineering

September 1998

EXPERIENCE

July 2010 to Dec 2013

Assistant Professor and Head, Department of Mechanical Engineering, Radharaman Institute of Research and Technology, Bhopal.

Sep 2009 to May 2010

Teaching Assistant for Computational Fluid Dynamics and Mechanical vibrations.

Worcester Polytechnic Institute, Worcester, MA, USA.

- Grading of graduate student course paperwork.
- Be available during office hours to answer any course related questions students may have.

July 2006 to Mar 2008

Assistant Professor, Department of Mechanical Engineering,
All Saints' College of Technology, Bhopal.

Jan 2004 – June 2006

Lecturer, Department of Mechanical Engineering,
Laxmi Narain College of Technology, Bhopal.

- Courses taught: Machine Design and CAD, Strength of Materials, Metal cutting and CNC machines, Material Science, IC Engines, Industrial Engineering and Operations Research.
- As Head of Department, responsible for all the functions related to the Department.
- Coordinator of students in their final and pre-final year projects.
- Assisted students in various activities like technical paper presentation, technical model contest etc. during college technical fests.
- Lead the coordination and implementation of various programs of Energy club (a student's club established under the aegis of the Ministry of Energy, Government of India).

June 2002 – Dec 2003

Research Associate

Central Institute of Agricultural Engineering (CIAE), Bhopal.

- Prepared manuals of various agricultural implements listed in the project. The manuals include detailed drawing of each component, suggested production methods and assembly procedures.
- Involved in jigs, fixture and die designing with the principal investigator.
- Compiled progress report of the project at various stages.
- Supervised batch production of various agricultural implements in the project.

Aug 1998 – May 2002

CAD/CAM Support Engineer

Prema software solutions, Bhopal.

- Imparted training on I-deas and SmartCAM software applications.
- Also worked on additional consultancy projects, as assigned by the firm.

AWARD/SCHOLARSHIP

Received the GATE scholarship, which is the most coveted national technical scholarship in India.

PUBLICATIONS

M. Singh, M. Younus and P.K. Lahiri, "A systematic and holistic approach to assess the rate of Total Productive Maintenance in the reduction of losses in an oxygen plant", RGI International Journal of Applied Science & Technology, 2011.

I have been published on various subjects such as Reliability and Maintenance et al. related to the RPGV syllabus for Mechanical Engineering.

CONFERENCE

Riyaz Rafique, Mohammad Younus, “OSM 1.0 - Obstacle Surmounting Mechanism for Mobile Robotic Platform” Special Issue: Proceeding of 2nd International Conference on Emerging Trends in Engineering and Management, “International Journal of Advances in Engineering Sciences”, Vol.3, No.3, July 2013, pp. 160-164.

UPCOMING CONFERENCE (Paper already selected)

International Conference on Convergence of Science, Engineering & Management in Education & Research: A Global Perspective, II Edition from 26th Sep 2013 at Bengaluru, Karnataka, India.

National Conference on “Frontiers In Mechanical Engineering” from 29th August, 2013 at MANIT Bhopal, Madhya Pradesh, India.

National Conference on “Recent Trends In Engineering, Technology & Management for Sustainable Development” from 13th August 2013 at Palwal, Haryana, India.

WORKSHOP ATTENDED

1. Attended ten days workshop on “**Introduction to Research Methodologies**” conducted by IIT Bombay from 25 Jun – 04 July, 2012.
2. Registered for the upcoming “**International Workshop on Computer Aided Engineering and Robust Design**” to be conducted at SKP Engineering College, Tiruvannamalai from 24 Aug 2013.

MEMBERSHIP/REVIEWER

Reviewer for: -

- ❖ IJETR – International Journal of Engineering & Technology Research.

Life member of: -

- ❖ Association for Machines and Mechanisms, India.
- ❖ International Association of Academicians and Researchers (INAAR)

Member of: -

- ❖ International Association of Engineers (IAENG), Hongkong.
- ❖ The i-Xplore International Research Journal Consortium (IIRJC)
- ❖ International Association of Online Engineering, Vienna, Austria.
- ❖ The IAENG Society of Mechanical Engineering, Hongkong.
- ❖ The IAENG Society of Industrial Engineering, Hongkong.
- ❖ The IAENG Society of Operations Research, Hongkong.

COMPUTER PROFICIENCY

Proficient with AutoCAD, Microsoft Office (MS Word, Excel, PowerPoint), I-deas and SmartCAM. Familiar with, ANSYS, LS-DYNA, FLUENT, MATLAB and C++.

PERSONAL INFORMATION

Date of Birth : 22 Mar 1976
 Gender : Male
 Fluent in : English, Hindi and Urdu

References will be furnished upon request.