

CURRICULUM VITAE

Name : MOHAMMAD EHTESHAMUL HAQUE
Father's Name : Ali Ahmed Khan
Address : B-255.Block 'L', North Nazimabad • Karachi 74700
Tel. / Mobile : (21) 3664-8443 / 0313 241 1814
Email Address : mehaque101@yahoo.com, mehaque@neduet.edu.pk
Date of Birth : 16 July, 1965
Qualifications : MSME (Mechanical Engineering) from USA

PROFESSIONAL EXPERIENCE

NED University of Engineering & Technology, Karachi, Pakistan 2008–Present

Assistant Professor (Mechanical Engineering Department)

- Taught Engineering Thermodynamics, Fluid mechanics, Heat and Mass Transfer and Refrigeration and Air Conditioning.
- Conducted Thermodynamics, Gas Dynamics, Fluid mechanics, Gas Turbine and I.C. Engine labs for second and Final year students.
- Performed invigilation and examination duties.
- Performed admission duties as a member of admission committee.
- Assigned and supervised final year students for their final projects.
- Conducted viva voce examination for practical and final year projects.

Dawlance Group of Companies, Karachi, Pakistan 2006–2007

Production Manager

- Managed and supervised production of Deep Freezers, Refrigerators and Split A/c.
- Managed technical staff of engineers and diploma holders.
- Manufactured components such as condenser, evaporator, heat exchangers, various ABS plastic parts and expanded polystyrene parts for packaging.
- Set up and run processes for paint shop, dip coating shop, sheet metal shop and body preparation shop.
- Managed and ran assembly line for deep freezers, refrigerators and split A/C.
- Ensured that all maintenance activities are in compliance with the company policy.
- Instituted an effective preventive maintenance program to ensure efficient production operation within cost targets
- Consulted with production personnel to determine equipment operating and maintenance needs.
- Participated in major projects of construction and installation activities
- Ensured safe operating conditions exist throughout the facilities and promptly correct any unsafe conditions.

Micro Data Source Inc., Costa Mesa, California 1998–2005

Network Specialist / Network Engineer / Project Coordinator

- Plan, design, install, and support major server and network systems for clients in the U.S. Provide pre and post-sales support as needed for clients. Carried out system administration.
- Worked as a network engineer. Design and developed local area network (LAN) and WAN for small and medium size company.
- Developed turn key LAN system for businesses based on their needs.
- Recommended application soft wares, computer systems and peripherals to corporate clients.
- Responsible for complete project life cycles, including requirements determination, technical planning, scheduling, design, implementation, testing, and post-implementation support.
- Served as liaison between company and client technical and executive management teams.
- Ability to assess organizational needs and implement administrative procedures. Analyzed and improved departmental operations resulting in increased sales and productivity.
- Maintained and encouraged customer loyalty through the courteous and efficient resolution of disputes, complaints, and discrepancies.

Hydraulics Chatsworth, California

1993–1997

Production Engineer

- Worked as a Production Engineer and as Project Manager. Planned and coordinated production procedures in the machine shop. Regulated and coordinated functions of office and shop.
- Supervised and coordinated activities of workers engaged in production machining of metallic or nonmetallic work pieces, applying knowledge of machine shop procedures, machine tool setup and operating techniques, and production machining methods.
- Developed schedule to establish sequence and lead time of each operation to meet shipping dates according to sales forecasts and customer orders.
- Analyzed production specifications and machine shop capacity data and performed mathematical calculations to determine manufacturing processes, tools, and human resource requirements. Planned and scheduled workflow for each department and operation according to previously established manufacturing sequences and lead times. Prepared production reports and lists of required materials, tools, and equipment.
- Developed, evaluated, and improved manufacturing methods and quality control standards by applying TQM.

California Energy Engineer, Ontario, California

1991–1992

HVAC Engineer

- Calculate heat loss and heat gain for buildings for use in determining equipment specifications by following standardized procedures.
- Designed and Installed programmable, computer-based control systems for regulating residential and commercial environmental energy equipment, such as heating, ventilating and air-conditioning (HVAC) systems, heat pumps, boilers, and chillers, applying knowledge of computer control systems and environmental energy equipment.
- Tested circuitry of faulty computer controls, using voltmeter, oscilloscope, and logic analyzer to isolate malfunctions to circuit board.
- Drew plans for installation of HVAC equipment.

PACO, Karachi, Pakistan

1988–1989

Trainee Engineer

- Developed and improved designs for automotive structural members, engines, transmissions, and associated automotive equipment.
- Conducted experiments and tests on existing designs and equipment to obtain data on function and performance of equipment.
- Directed testing activities on components and equipment under designated conditions to ensure operational performance meets design specifications.
- Assisted drafter in developing structural design for auto body. Designed and drafted automotive parts using AutoCAD. Hands on working experience of coordinate measuring machine.

EDUCATION

University Malaysia Pahang

PhD, Mechanical Engineering 2018

PhD Dissertation: CFD simulation of heat transfer augmentation with nanoparticles.

New Jersey Institute of Technology

MSME, Master of Science in Mechanical Engineering, 1991

NED University of Engineering & Technology

BE, Bachelor of Mechanical Engineering, 1988

LICENSES AND CERTIFICATIONS

Pakistan Engineering Council
Microsoft Certified Professional (MCP)
Novell CNA
A+
Seven Basic Tools for Quality Control (Statistical) House
Keeping – 5S
ISO-9001:2000
ISO-14001:2004

JOURNAL PUBLICATIONS

2017

Haque, M. E., Bakar, R. A., Ming, G. L., & Shakaib, M. (2017b). MODELING OF TEMPERATURE AND AIRFLOW PATTERN IN A REFRIGERATOR. *ARPJ Journal of Engineering and Applied Sciences*, 12(10)

2016

Haque, M. E., Bakar, R. A., Ming, G. L., & Shakaib, M. (2016). Predicting Airflow and Temperature Pattern Inside a Refrigerator Through CFD. *ARPJ Journal of Engineering and Applied Sciences*, 11(14).

Haque, M. E., Bakar, R. A., Kadirgama, K., Noor, M. M., & Shakaib, M. (2016). Performance of a domestic refrigerator using nanoparticles-based polyolester oil lubricant. *Journal of Mechanical Engineering and Sciences*, 10(1), 1778-1791. doi:10.15282/jmes.10.1.2016.3.0171

2013

Shakaib, M., Hasani, S. M. F., Haque, M. E., Ahmed, I., & Yunus, R. M. (2013). A CFD study of heat transfer through spacer channels of membrane distillation modules. *Desalination and Water Treatment*, 51(16-18). doi: 10.1080/19443994.2013.789234

CONFERENCE PUBLICATIONS

2018

Haque, M. E., Bakar, R. A., & Shakaib, M. (2018). *Experimental investigation of no-frost refrigerator with nano-lubricants*. Paper presented at the 8th International Mechanical Engineering Conference (IMEC-2018), Karachi, Pakistan.

2017

Haque, M. E., Bakar, R. A., Ming, G. L., & Shakaib, M. (2017a). *DEVELOPMENT OF A CFD MODEL FOR AIRFLOW AND TEMPERATURE PATTERN INSIDE A DOMESTIC REFRIGERATOR*. Paper presented at the 7th International Mechanical Engineering Congress (SIMEC-2017), Karachi, Pakistan.

2015

Muhammad E. Haque; Rosli Abu Bakar, G. L. M. (2015). *Air Flow and Temperature Pattern inside an Empty no-frost Refrigerator*. Paper presented at the National Conference on Postgraduate Research (NCON 2015), 25th -26th, January, Universiti Malaysia PAHANG, Kuantan, Pahang.

Haque, M. E., B., R. A., Kadirgama, K., M.M.Noor, & Shakaib, M. (2015). *Nanoparticles Application In A Domestic Refrigerator For Performance Enhancement*. Paper presented at the 3rd International Conference on Mechanical Engineering Research (3rd ICMER2015), 18-19 August, Zenith Hotel, Kuantan, Malaysia.

Haque, M. E., Bakar, R. A., & Ming, G. L. (2015). *CFD simulation of temperature and air flow in a domestic refrigerator*. Paper presented at the International Conference on Computational Fluid Dynamics in Research & Industry (CFDRI 2015), 17 – 19 August, Kuala Lumpur, Malaysia.

Haque, M. E., Bakar, R. A., & Ming, G. L. (2015). *Predicting airflow and temperature pattern inside a refrigerator through CFD*. Paper presented at the 6th international conference on mechanical and manufacturing engineering (icme 2015), 19-21 October.

2010

Haque, M. E.-u., Shakaib, M., & Ahmed, I. (2010). *Unsteady fluid flow and temperature patterns in membrane distillation process*. Paper presented at the Proceedings of the 13th Asian Congress of Fluid Mechanics, Dhaka, Bangladesh.