

Dr. Noman Uddin Yousuf

Dept. of Automotive & Marine Engineering
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PERSONAL STATEMENT:

As an experienced academician, I possess excellent applied knowledge, academic management, and communication skills along with a grip on contemporary teaching methods that promote an effective learning environment for students.

PROFILE SUMMARY:

- More than ten years of teaching experience in a variety of academic organisations
- More than five years of academic management experience at university level
- More than four years of industrial working experience in multinational manufacturing company
- Actively involved in curriculum development as per engineering accords
- Excellent academic writing skills
- Extensive participation in academic and professional trainings for skills development
- Author of multiple peer reviewed research papers
- Hands on expertise on various engineering software tools

EDUCATION:

- **Doctor of Philosophy** Dec 2017
Mechanical Engineering
Thesis: Utilisation of Waste Heat Energy from an Internal Combustion Engine for Tri-generation
Auckland University of Technology, Auckland- New Zealand
- **Master of Science** Dec 2008 GPA: 3.4
Mechanical Engineering
Bradley University, Peoria-IL, USA
- **Bachelors of Engineering** Dec 2002 1st Division
Mechanical Engineering
NED University of Engineering & Technology, Karachi-Pakistan

PROFESSIONAL EXPERIENCE:

- **NED University of Engineering & Technology (Karachi - Pakistan)**

Assistant Professor – Dept. of Automotive & Marine Engineering (April 2011- Till to date)

- Taught and conducted a variety of engineering courses (theory and practical) which includes: Thermodynamics, Heat Transfer, Engineering Design and Computer Graphics, Machine Design, Manufacturing Engineering, Refrigeration & Air Conditioning
- Developed the course prescription for multiple courses in accordance with ABET accreditation and Washington Accord requirements
- Developed lab manuals for a multiple course
- Member of BoS (Board of studies) committee of the department
- Worked as an Area Coordinator in the department for maintaining academic quality
- Worked as Factotum i.e. Head of invigilators during semester examinations
- Mentored and supervised final year students in their Final Year Project as a Project Advisor
- Worked as a Class advisor for the students of 1st and 3rd Year of Engineering
- Worked as a Final Year Design Project Coordinator to collaborate with the industry for undergraduate projects

- **Auckland University of Technology (Auckland – New Zealand)**

Part time Lecturer – School of Engineering (March 2014-July 2017)

- Assisted Paper Leader in the delivery of “ENME602 Engineering Design Methodology”, “705010 Introduction to Engineering Design”, “767025 Fluids and Thermodynamics” and “ENME604 Fluid Mechanics” to engineering students
- Trained the students on different computer aided design (CAD) software such as SOLIDWORKS and AUTOCAD
- Laboratory tutor for a variety of mechanical engineering courses
- Involved in assessment of student assignments, practical labs, projects and exams.

- **INDUS University (Karachi-Pakistan)**

Visiting Lecturer- Department of Technology (June 2011 – May 2013)

- Taught different engineering courses to technology students which include Computer Graphics, Thermodynamics, and Engineering Mechanics.

- **US Department of Energy Industrial Assessment Centre at Bradley University (Peoria – USA)**

IAC Intern (May 2007 to Aug 2007)

- Participated in 10 Department of Energy (DoE) sponsored on-site energy assessments
- Arranged audits and comprehensive industrial visits for reviewing plant layout and data
- Identified and recommended ideas for efficiency improvement and waste minimization by testing the facility equipment and procedures
- Performed detailed analysis for specific recommendations with related estimates of costs, performance and payback times
- Compiled reports with analysis results
- Followed-up with plant managers to verify the effectiveness of the recommendations.

- **PHILIP MORRIS INTERNATIONAL (Lakson Tobacco Company Ltd) (Karachi-Pakistan)**

Assistant Manager Procurement Planning (Jan 2006 to Dec 2006)

- Lead a team of 5 members for smooth and timely supply of engineering parts to six company factories
- Supported Senior Manager Engg Purchase in strategic planning of spare parts and machines for factories
- Maintained inventory levels of spare parts and worked in close relationship with foreign and domestic suppliers and stay current on any changes in either the supply of or demand for needed parts and materials
- Designed different mechanical engineering parts on SOLIDWORKS for manufacturing
- Evaluated suppliers on multiple criteria such as price, quality, service support, availability, reliability etc
- Worked on successful completion of projects like launch of new brands in Pakistan market.

Assistant Manager Production Planning (March 2004 to Dec 2005)

- Responsible for the Batch Production (as per production plan & Machines Lay down) in the Processing Department.
- Designed and implemented Standard Operating Procedures (SOPs) to ensure safety environment
- Worked on "TIES" (Tobacco Industries Engineering Services, Japan) project for the improvement and standardization of Tobacco Processing that includes maintenance procedure and statistical analysis of the processes, energy efficiency, waste minimization and machine capability
- Involved as 5S Facilitator in the implementation of "5S System" to improve the housekeeping and working patterns of the production floor
- Planned and completed many departmental projects including installation and commissioning of new machines.
- Worked on the implementation of SAP in the organization along with SAP Malaysia, Siemens and Real Time Consultant

RESEARCH PUBLICATIONS:

- Yousuf, N. U., Anderson, T., & Nates, R. (2021). A Parametric Examination of the Factors Affecting the Performance of a Diffusion Absorption Refrigeration System. Journal of Thermal Science and Engineering Applications, 14, 071004(1-16).
- **Yousuf, N.**, Anderson, T., Gschwendtner, M. and Nates, R., 2016, "Predicting the Pumping Characteristics of Multiple Parallel Tube Air-Lift Pumps", Proceedings of the 20th Australasian Fluid Mechanics Conference, Perth, December 2016
- **Yousuf, N.**, Anderson, T., Gschwendtner, M. and Nates, R., 2016, "Performance of a Cooling System Driven by Engine Exhaust Heat", Proceedings of the 4th International Conference on Sustainability and the Cold Chain, Auckland, April 2016
- **Yousuf, N.**, Bateau, E., Anderson, T., Gschwendtner, M. and Nates, R., 2014, "Modelling the Performance of a Diffusion Absorption Refrigeration System", Proceedings of the 2014 Asia-Pacific Solar Research Conference, Sydney, December 2014

SOFTWARE SKILLS:

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| • Engineering Equation Solver (EES) | • Pro/Engineer Wildfire |
| • AUTOCAD | • MATLAB |
| • SOLIDWORKS | • Microsoft Office |
| • TRNSYS | • Minitab (Statistics) |

HONORS AND ACHIEVEMENTS:

- Faculty development program scholarship from NED University of Engg. & Technology for pursuing PhD at Auckland University of Technology
- Academic excellence scholarship throughout during graduate studies at Bradley University.

PROFESSIONAL MEMBER:

- Member of Pakistan Engineering Council (PEC) which is the provisional signatory of Washington Accord in Pakistan.