	-
Designation	Assistant Professor, Department of Mechanical Engineering, since July 2007
Room No ./Ext #	Acoustics & Vibration Laboratory / Ext 2290
E-mail	mughal@neduet.edu.pk, umair.mughal@gmail.com
Objective	True Success Encompasses More Than Just Having A Great Occupation, I Would Like To Give Something Worthwhile To The Community That Has Given So Much To Me
Academic Career	i. M.Engg. Mechanical (Design Engineering), NED UET, Karachi. ii. B.E. Aerospace, CAE@PAF Academy, Risalpur, NUST iii. HSC Pre-Engineering, FG Degree College, FBISE, Islamabad iv. SSC Science, Army Public School, FBISE, Islamabad
Technical Expertise	i. Aircraft Design, ii. Wind Turbine Design, iii. Lead Engineer for Dynamic Balancing Jobs, Nominated by Mechanical Engineering Deptt.
Software Expertise	 i. Mathematics Tools: ii. Mechanical Softwares: iii. Aero Softwares: iv. Languages: MatLab, MathCAD, Maple, Mathematica, Techplot, Curve Expert iii. Mechanical Softwares: iv. Panalik, DatCOM, AAA, Gridgen, Fluent, Profilli, Gambit, RDS C⁺⁺, Foxpro, Fortron 90
Previous Experience/Projects	Designation: Assistant Manager, Aero Service Period: From 2. a Dec, 2003 to 23 rd July, 2007 Job Responsibilities: i. Active Member of Aerospace Design Team ii. Supervising Mechanical Workshop Activities iii. Involvement in various Administrative Tasks Projects: i. Indigenous Design of a new UAV System ii. Mechanism Design, synthesis & analysis of Control Surfaces of different UAVs iii. Analysis of different UAV Systems on Potential Flow Solver, DATCOM and AAA iv. Simulation of Different UAV Systems on MATLAB using Simulink & Aerosim v. Design of 26' Span Inverted Airfoil Shaped Moving Roof for a Building vi. Developed Propeller Design Code in MatLab for the design of 3kW Wind Turbine. vii. Also used Wind Turbine Blockset of Simulation of 3 kW Wind Turbine Projects During MEngg. Mechanical (Course Work Projects)
	i. Design & Fabrication of Conveyor Belt Type Magnetic Separator for Cement Plant ii. Mechanism Design and its simulation for control of Canardvator of an Aircraft

	Project and Important Course During through BE Aerospace	
	Aircraft Design Course: General Design of Supersonic VTOL/STOL Aircraft using RDS Final Year Project: Theoretical Investigation of Pres sure Differential AOA Measuring System Instructor & Advisor: Dr. Jehanzeb Masud	
Teaching Experience	Teaching Mechanical Vibrations(Theory), Clean Air Technology(Lab.), Engineering Mechanics(Theory), Gas Turbine(Lab.) in the Academic Session 2008-09 Taught Solid Mechanics I(Theory+Lab), Fluid Mechanics II(Theory+Lab.), Gas Turbine(Lab.) in Academic Session 2007-08.	
Research Experience	As Mentioned in EXPERIENCE at NESCOM, Pakistan	
Professional Memberships	i. PEC Membership #: AERO/958 (Life Time Member) ii. IEEE Membership #: 41631049 (Member Since 2004) iii. ASME Membership #: 8633273 (Member Since 2005	
Teaching Interest	Vibrations and Control, Renewable Energy Technologies, Fluid Mechanics, Gas Turbine	
Research Interest	Dynamic Simulation and Control, Aouestic Emmissions and Control, Bio Control	
Technical Interest	To continue working as Lead Engineer for Dynamic Balancing Jobs, To work in the field of Acoustic Emmissions and Control To work in the field of BioControl	
Honors	 i. 7 out of 7 semesters on COMMANDANT MERIT LIST in BE ii. Availed NUST Scholarship on Entry Test Merit Position iii. Availed NUST Scholarship in 3 out of 7 Semesters on Overall Class Ranking iv. Availed NESCOM Scholarship in Last 2 Semesters of BE 	
Conference Proceedings	i. U. N. Mughal, J. Masud, "A Step forward in Stealth Technology – Theoratical Investigation of Pressure Differential Angle of Attack Measuring System", 12ACFM 18-21 August 2008, ISBN 978-89-961399-0-4-93060 ii. U. N. Mughal, J. Masud, "Use of Conformal Mapping to theoretically analyze the flow on an Airfoil from Rotating Cylinder for Flush System" 12ACFM 18-2 1 August 2008, ISBN 978-89-961399-0-4-93 060 iii. Umair N. Mughal, "Wind Turbines; Believe of Greener and Healthier Future", 2. 4 National Conference on Energy & Environment, QUEST, Nawabshah, Pakistan	
Workshops/Seminars Attended	. Attended 2 Days Training Workshop on Wind Mast Installation and Wind Data Collection by UNDP/GEF Wind Energy Project on May 22-23 2008. ii. Attended Traing on Library Facilities and Digital Resources by Quality Management Cell of NED University of Engineering and Technology, Karachi, Pakistan in March 2008	
Personal Information Married.		