

Curriculum Vitae

**Uzma Nadeem**

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## **CAREER OBJECTIVE**

Seeking a challenging career that utilizes my skills in my area of competence and enriches my knowledge and gives me a chance to be part of a team that contributes towards the growth of the organization thereby yielding the twin benefits of job satisfaction and promote professional plus research growth.

## **EDUCATION**

- 2012-2014 N.E.D University of Engineering and Technology, Karachi.  
**M.E. Biomedical Engineering ----- CGPA 3.91 with a distinction of 1<sup>st</sup> position**
  - Secured **GPA 3.7** in the First Semester
  - Secured **GPA 3.7** in the Second Semester
  - Secured **GPA 4.0** in the Third Semester
  - Secured GPA 4.0 in the Last Semester.
- 2007-2011 N.E.D University of Engineering and Technology, Karachi.  
**B.E. Bio-Medical (Bio-Stream) Engineering ----- CGPA 3.74 with a distinction of 3<sup>rd</sup> position.**
  - Secured **3<sup>rd</sup> Position** in B.E. Bio-Medical Engineering (**CGPA 3.74**)
  - Secured **5<sup>th</sup> Position** in Fourth Year of B.E. (**84% marks**)
  - Secured **4<sup>th</sup> Position** in Second Year of B.E. (**82.0% marks**)
- 2004-2006 Khatoon-e-Pakistan Girls Government College, Karachi.  
**H.S.C. Intermediate (Pre-Engineering) (82% marks)**
- 2002-2004 Gulistan Shah Abdul Latif School, Karachi, 2004  
**S.S.C. Matriculation (Science Group) (82% marks)**

## **WORKING EXPERIENCE**

**Lab Engineer, NED University of Engineering and Technology, May 2012 to till date**

Responsibilities assigned in Year 2012 (Fall Semester)

- Course teacher of the first year subject "Computer Aided Engineering Graphics".
- Lab instructor for Mechanical Arm and Leg Model in third year the course "Biomechanics" and AutoCAD 2009.

Responsibilities assigned in Year 2013 (Spring Semester)

- Course teacher and Lab instructor of the final year subject “Transport Phenomena in Biomedical Engineering”.

Responsibilities assigned in Year 2013 (Fall Semester)

- Course teacher of the first year subject “Computer Aided Engineering Graphics”.
- Lab instructor for AutoCAD 2009.

Responsibilities assigned in Year 2014 (Spring Semester)

- Course teacher and Lab instructor of the final year subject “Transport Phenomena in Biomedical Engineering”.
- Course teacher of the first year subject “Computer Aided Engineering Graphics”.
- Lab instructor for AutoCAD 2009.

Responsibilities assigned in Year 2014 (Fall Semester)

- Course teacher and Lab instructor of the final year subject “Biotechnology”.
- Shared Theory of second year “Basic Electronics”.

Responsibilities assigned in Year 2015 (Spring Semester)

- Course teacher and Lab instructor of the first year subject “Computer Aided Engineering Graphics”.
- Course teacher and Lab instructor of the final year subject “Biotechnology”.
- Working as an advisor and project coordinator of Final year Biomedical Engineering students entitled as “3D protein modeling of *bla*SHV derived ESBLs”.

Responsibilities assigned in Year 2015 (Fall Semester)

- Course teacher and Lab instructor of the subject “Biostatistics” using “Minitab”.
- Lab instructor of the subject “Control systems in Biomedical Engineering” using “MATLAB”.
- Course teacher and Lab instructor of the subject “Biotechnology”.

Average feedback of students of first, second and final year students for these above mentioned courses is found to be 8.71 out of 10 scale which is considered as “Very Good”.

**Internee, Karachi Institute of Biotechnology and Genetics Engineering, July to November, 2011**

To gain knowledge about modern use and development of biotechnology and genetic engineering techniques. Handover practices on different procedures of medical, industrial and plant biotechnology that gave a great exposure on DNA extraction protocols, Gel electrophoresis, PCR, DNA sequencing, Karyotyping and RFLP, used in forensic medical sciences.

**Winter Associate, Agha Khan Hospital, Jan to Feb, 2009**

To understand the working and construction of the machinery being used in Critical Care units and Radiology department of the hospital.

**Trainee, Karachi institute of Radiology and Nuclear Medicine (KIRAN), June 2008**

To understand the working, construction and troubleshooting Radiology department equipment.

**RESEARCH PROJECTS**

**FINAL YEAR PROJECT (B.E. 2011)**

“Designing of Electromyography Device for extraction and analysis of EMG signal using Virtual Dub Software and its Statistical modeling based on multiple parameters to predict muscular dystrophy”.

**Supervised by: Madam Arhum Sultana (Lecturer Bio-Medical Engineering Department, NEDUET Karachi)**

**DISSERTATION (M.E. 2013-2014)**

Research based study conducted in University Of Karachi under the supervision of Prof. Dr. Farzana Yasmin (Chairperson of Food Engineering Department, NEDUET. Karachi) entitled as “Molecular characterization of Extended Spectrum Beta Lactamases (ESBLs) producing clinical isolates of *Klebsiella pneumoniae* among Karachi population, Pakistan”.

**SUPERVISOR OF A RESEARCH PROJECT (2015):**

Supervised a research project of Final year Biomedical Engineering undergraduate students entitled “3D protein modeling of *bla*SHV-158 derived ESBLs”.

**EXPERTISE**

- Extensive knowledge and hands-on experience in the 2D drafting and 3D modeling using AutoCad 2009 and Gambit incorporating simulations using Fluent software.
- Well equipped with the knowledge of the theory and hand on practice of Biotechnology Wet Lab procedures.
- Well organized and have ample Time Management Skills.
- Possess Thinking, Analyzing and Problem Solving Skills.

## **COURSES**

- Completed a 24 hours course on AutoCAD conducted by Autodesk Authorized Training Centre at NEDUET.
- Completed a 30 hours course on C Language at UMER coaching centre, Karachi Pakistan.

## **SOFTWARE SKILLS**

<b>Gambit &amp; Fluent</b>	<b>Virtual Dub</b>	<b>Minitab</b>	<b>Bioinformatics tool</b>
<b>AutoCAD</b>	<b>MATLAB</b>	<b>MS Office</b>	

## **ACADEMIC HONORS AND AWARDS**

- Secured 1st position in Masters of Biomedical Engineering from NED university of Engineering and Technology in 2014.
- Awarded Certificate of Merit for securing Third position in B.E of Bioengineering from NED university of Engineering and Technology in 2012.
- Offered a post of Lab Engineer in NED University of Engineering and Technology in view of excellent merit.
- Successfully completed Masters Research work which was first time conducted in Pakistan and has its novelty.
- Paper abstract of Masters Dissertation is accepted in World Congress and Expo on Applied Microbiology for oral and poster presentation under Young Researcher Forum, held during August 18-20, 2015 in Frankfurt, Hesse, Germany.

## **REFERENCES**

**Prof. Dr. Farzana Yasmin**

**Email: farzanayasminpk@yahoo.com**

**Prof. Dr. Ing. Naseem Uddin.**

**Email: naseem@neduet.edu.pk**