



# Shehroze Ali Baig

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**Date of birth:** 19/11/1997 | **Nationality:** Pakistani | **Gender:** Male | **Phone**

**number:** (+92) 3312869384 (Mobile) | **Email address:**

[shehrozeali@cloud.neduet.edu.pk](mailto:shehrozeali@cloud.neduet.edu.pk) |

**Address:** C-408 Farhan Tower, Gulshan-e-iqbal Block 10-A, 75290, Karachi, Pakistan (Home)

## ● EDUCATION AND TRAINING

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11/2019 – 14/04/2022

**MASTERS IN TEXTILE MANAGEMENT** NED University of Engineering & Technology

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**CGPA:** 3.95/4

**Thesis:** Characterization of Machining Parameters of Textile Reinforced Composites

**Short Description:** A composite material is a material produced from two or more constituent materials with notably dissimilar chemical or physical properties that, when merged, create a material with properties, unlike the individual elements. Textile composite are making their way in many fields due to their higher strength to weight ratio and flexibility in design, but they are difficult to machine hence this research will be based on investigating different weaving mechanism on some fibers which incorporates Kevlar/Dyneema. Composite will be manufactured through vacuum Infusion and then Machining of textile composite will be carried out by varying different parameters to achieve required strength, surface finish and tool wear. This Project is Funded by NED University of Engineering & Technology Funding Body i.e; ASRB  
Supervisor: Prof. Dr. Bilal Zahid

11/2015 – 07/2019

**BACHELORS IN TEXTILE ENGINEERING** NED University of Engineering & Technology

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**CGPA:** 3/4

**Thesis:** Optimization of process parameters for printing cotton fabric with sulphur dye using bio-degradable reducing system

**Short Description:** The purpose of this project was to develop and optimize the recipe for printing cotton fabric with sulphur printing by using biodegradable reducing system as the current reducing agents are hazardous in nature. This project was a collaborative project between NEDUET and Archroma Pvt Ltd  
Supervisor: Dr. Quratulain Mohtashim

## ● WORK EXPERIENCE

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04/03/2023 – CURRENT Karachi, Pakistan

**ENGINEERING LECTURER** NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

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As a Visiting Lecturer at the Department of Textile Engineering, I am currently teaching Textile chemistry and Production management to undergraduate students in the field of textile engineering. I develop and deliver engaging lectures, facilitate interactive discussions, and grade assessments to measure student progress. Additionally, I provide academic advising to students and serve on academic committees as needed. My role as a Visiting Lecturer allows me to share my passion for teaching and my expertise in textile engineering with students, while also gaining valuable experience in academic instruction and curriculum development.

02/08/2022 – CURRENT Karachi, Pakistan

**TEACHER** NED ACADEMY- CCEE

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Trainer at Undergraduate and Post graduate diploma and delivered lectures on various topics related to Textile Engineering to undergraduate students, including courses such as

1. Textile Fabric Preparatory Process
2. Textile Printing & Finishing
3. Textile Composites

**RESEARCH ENGINEER NED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

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I am currently working as Research Associate in the SMARTEX+ ERASMUS project titled "Modernization of curriculum of Textile Engineering & Textile Technology in Indonesia, Malaysia, and Pakistan" doing the following things.

1. Designing new modules for modernizing current curriculum
2. Research and composite manufacturing in newly build Erasmus Composite Laboratory
3. International meetings and trainings as part of team

31/08/2019 – 31/07/2020 Karachi, Pakistan

**MANAGEMENT TRAINEE OFFICER ARTISTIC MILLINERS**

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During my job at Artistic Milliners, I was responsible for following things

1. Reporting Daily consumption of Raw Material and cost associated with all the production processes
2. Re-Engineering B-Grade Textile after technical evaluation of the fault
3. Production and Labour Management

31/07/2019 – CURRENT Karachi, Pakistan

**CO-SUPERVISOR OF FINAL YEAR PROJECTS NED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

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Co-Supervised many final year projects from 2020, some of which includes

1. Development of sound absorbing textile fabric
2. Development of high performance fabric for retro-fitting applications
3. Characterization of effect of weave structures on Composite properties
4. Characterization of fiber Reinforced concrete

● **LANGUAGE SKILLS**

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Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **ADDITIONAL INFORMATION**

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**PROJECTS**

30/09/2020 – 30/09/2021

**Characterization of Synthetic/Natural fiber reinforced concrete.** The Concrete possess properties such as strength and toughness but acts weak and brittle and tends to fail under stress and other external environmental conditions. Therefore, these properties and behaviour need to be improved by achieving high-strength Concrete that can withstand catastrophic stress. To achieve that, several types of research and methods have been applied since ancient times, which led up to Fiber Reinforced Concrete (FRC). The method includes random distribution of discrete fibers throughout the concrete mix. Its application serves the purpose of protection from plastic and drying shrinkage, improved durability, increased service life, and reduced maintenance costs.

**Characterization of lycra break problems in denim washing** Denim is the most appealing garment in this era and is extensively utilized across the world for a variety of uses, most notably for clothing. Since, it is made of cotton, and because there is a strong need for flexibility in clothing, lycra is also included in it. However, one of the major issues related to manufacturing and washing of denim garments is lycra breakages. Lycra breakages often occur when the garment is subjected to abrasion from the machine, other nearby garments, or various harmful substances. After washing, lycra breakages become evident, making the garment's look unappealing. It is important for jeans to be devoid of flaws

## **INTERNATIONAL TRAININGS**

14/05/2022 – 15/08/2022

### **Erasmus SMARTEX International Traineeship in UGENT Belgium**

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Traineeship is basically about Industrial services in Europe. I am working on smart Textile applications mainly Textile Based sensors.

28/05/2022 – 02/06/2022

### **OptimTex Intensive Study Program at University of Maribor, Slovenia**

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It was a full week Intensive study at University of Maribor, Slovenia, comprising of following trainings

- 1) Smart Textile and their weaving methods
- 2) Virtual Prototyping and 3D sensing using Optitex, Blender and Sense Software.
- 3) Embroidery for Smart Textile (Designing on Inkscape and then making Prototypes on Water Leak Detector)
- 4) Practical Work on Embroidery for different Smart Textile Applications

## **INTERNATIONAL ONLINE TRAININGS AND COURSES**

01/01/2023 – 21/02/2023

### **Certification on Ceramics and Composites**

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Arizona State University

**Training on 1) Online learning 2) Importance of student engagement 3) Intro to learning management studies 4) Online teaching 5) Digital tools, Plagiarism detection, presentation tools interactive quizzes 6) Gamification**

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SMARTEX, ERASMUS  
Ghent Belgium

**Link** <https://www.ugent.be/en>

**Training on 1) TexGen 2) Digital embroidery for smart textile-using Ink/Stitch 3) Microcapsules Presentation 4) Programming for smart textile-Arduino**

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SMARTEX, ERASMUS  
West Attica Greece

**Link** <https://www.uniwa.gr/en/>

31/07/2021 – 08/10/2021

### **Certification on Advanced technologies for textile quality control. Artificial Vision**

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Universitat Politècnica de València

**Link** <http://www.upv.es/en>

31/03/2020 – 31/05/2020

### **Certification on Sustainable Fashion**

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Copenhagen Business School, Denmark

**Link** <https://www.cbs.dk/en>

## **RESEARCH CERTIFICATES**

26/05/2022 – 26/05/2022

**Digital Transformation and Impact of IOT on Education, Industry, Health Sector, and Society Towards Creating Job Opportunities"**

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**Pakistan Engineering Council**

31/01/2022 – 01/02/2022

### **Certificate on Promoting Research Excellence in Academics across Pakistan**

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Higher Education Commission, Pakistan

## RESEARCH TOOLS AND SOFTWARE

### Research Tools

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| Stereo Microscope | ConturoMatic | Laser cutter | Universal Tester | Magnetic  
Stirrer | Incubator | MATLAB | MINITAB | Optitex | ScopeTex | TexGen  
| Arduino

## NETWORKS AND MEMBERSHIPS

30/09/2018 – 30/09/2019

**Head of Team Logistics in AATCC** I Served AATCC for four years during my Graduation . I was Head of Team Logistic which managed all the resources of any event Organized by AATCC. We successfully manage Third International Textile Conference and local Textile Quiz competition and Futsal Tournament.

**Participation Certificates** 1) Career Seminar in 2016 & 2018

2) 2nd International Textile Conference

3) 3rd International Textile Conference

4) Futsal Tournament Winners

5) Treasure Hunt by Sentec

## RECOMMENDATIONS

**Prof. Dr. Bilal Zahid**

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**Position:** Professor & Co-Chairman

**Organization:** NED University of Engineering & Technology

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

**Dr. Muhammad Owais Raza Siddiqui**

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**Position:** Associate Professor

**Organization:** NED University of Engineering & Technology

**Email:** orazas@cloud.neduet.edu.pk