

Dr. Ali Hasan Mahmood

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PERSONAL INFORMATION

Father Name : Jafar Mahmood (late)
Date of Birth : 28th March, 1981
N.I.C : 42201-4983570-9
Religion : Islam
Nationality : Pakistani

SUMMARY OF QUALIFICATONS

PhD (Textile Science & Technology) 2011	The University of Manchester, UK
M.Engg (Textile) Batch 2005-2007 (3.35 CGPA)	NED University of Engineering and Technology Karachi
BE (Textile) Batch 1999-2003 2 nd position in final year and 3 rd position in 1 st & 3 rd year	NED University of Engineering and Technology Karachi
H.S.C. (Pre-engineering) 1999 78% marks	Dehli College, Karimabad, Karachi
S.S.C. (Science Group) 1997 84% marks	Metropolis Academy, Gulberg, Karachi

EXPERIENCES

1) SALFI TEXTILE MILL (July 2004 to April 2006)

(A Unit of TATA GROUP of Industries)

Worked as an Assistant Manager (Production & Work Standards). The job assignments included:

- To supervise all the proceeding of department according to work standards, thus keeping the quality of the product up to the required standards.
- To coordinate with Manager Production and W.S. in developing production plans and other production departmental activities.
- To organize production worker training sessions.
- Any other special task assigned by super-ordinates.

2) SM DENIM (April 2006 to October 2006)

Worked as Assistant Manager Operations. The job includes Assisting Manager Operations in departmental activities such as:

- Management of orders received from marketing department.
- Development of production plan.
- Coordination with departmental heads.
- Prepare analysis of departmental production reports.
- Handling of ERP (Enterprise Resource Planning).
- Follow-up of the processed orders.

3) NED UNIVERSITY OF ENGINEERING & TECHNOLOGY (Nov 2006 to Date)

Working as **Associate Professor (BPS-20)** in the Department of Textile Engineering. The jobs performed are:

- Teaching the courses TE-201 (Textile Yarn Manufacturing Processes), TE-302 (Textile Fabric Manufacturing Processes) and TE-313 (Textile Product Evaluation-I).
- Conduct practicals for the respective courses.
- Worked as class advisor.
- Lab In charge Textile Yarn Manufacturing Lab.

Working as **Head of Student Affairs Department** (Controller Student Affairs) on Additional Charge since March 2015. The responsibilities includes;

- Looking after the Scholarship process for deserving students from private funding sources.
- Managing all the events and extra-curricular activities conducted in NED University.
- Looking after the charge of **Director Physical Education** and Managing sports section with all the sport activities and projects conducted throughout the year.
- Looking after the performance of Canteens and Photostat shops in terms of quality and price control.

HONORS AND AWARDS

- Secured **second position** in B.E. (Textile) batch 1999-2000 NEDUET.
- Receives the “**Young Researcher Award**” at the **International Technical Textile Conference (ITTC) 2012** organized jointly by Textile Institute of Pakistan (TIP) and Pegasus Consultancy and supported by British Council and HEC under their collaborative program of INSPIRE on **November 17, 2012** at Sheraton Hotel, Karachi.
- **Research Publication Awards** by **NED Alumni Association** of Southern California for the year **2014** and **2015**.
- **Best Teacher Award** (Assistant Professor Category) by **NED Alumni Association** of Southern California for the year **2015**

PROFESSIONAL MEMBERSHIPS

- PEC (Professional Engineer Textile/ 127)
- NEDAN
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RESEARCH INTERESTS

- Conventional and Advanced Yarn and Fabric Manufacturing Processes
- Textile Based Composite Structures
- Development and Characterization of Air-Textured High Performance Yarns for composites

PUBLICATIONS

1. Ali Hasan Mahmood, R.H. Gong, I. Porat, **Improvement in the Bonding Strength of Laminated Composites by Using Air-Textured Core-and-Effect Glass Yarns**, *Polymer Composites*, Vol. 33, Issue 5, pp: 700–710, (May 2012).
2. Ali Hasan Mahmood, R.H. Gong, I. Porat, **Improving the bonding strength of laminated composites by optimizing fabric composition**, *Polymer Composites*, Vol. 33, Issue 10, pp: 1792–1797 (October 2012).
3. Ali Hasan Mahmood, R.H. Gong, I. Porat, **Development of Air Textured Core-and-Effect Glass Yarns for Improving the Bonding Strength of Laminated Composites**, *Fibers and Polymers*, Vol.14, Issue 2, pp: 271-276 (Feb 2013).
4. Ali Hasan Mahmood, R.H. Gong, I. Porat, **Improvement in the fracture toughness (Mode I) of laminated glass fabric composites through air-jet texturing**, *Fibers and Polymers*, Vol. 14, Issue 4, pp 591-596 (April 2013).
5. Laraib Alam Khan, Ali Hasan Mahmood, Zaffar Khan, **Post curing effect of poly epoxy on visco-elastic and mechanical properties of different sandwich structures**, *Polymer Composites*, Vol. 34, Issue 4, pp: 477–481 (April 2013).
6. Laraib Alam Khan, Ali Hasan Mahmood, S. Ahmed, Richard J. Day, **Effect of double vacuum bagging (DVB) in quickstep processing on the properties of 977-2A carbon/epoxy composites**, *Polymer Composites*, Vol. 34, Issue 6, pp: 942–952 (June 2013).
7. Laraib Alam Khan, Ali Hasan Mahmood, Ahmed Shuja Syed, Zaffar M Khan and Richard J Day, **Effect of hygrothermal conditioning on the fracture toughness of carbon/epoxy composites cured in autoclave/Quickstep**, *Journal of Reinforced Plastics and Composites*, Vol. 32, Issue 16, pp: 1165–1176 (August 2013).
8. Laraib Alam Khan, Ali Hasan Mahmood, Bilal Hassan, Tahir Sharif, Shahaab Khushnod, Zaffar M. Khan, **Cost-effective manufacturing process for the development of automotive from energy efficient composite materials and sandwich structures**, *Polymer Composites*, Vol. 35, Issue 1, pp: 97-104 (January 2014).

9. Zaffar M Khan, Ali Hasan Mahmood, Ben Mills and Laraib A Khan, **The drilling-induced failure mechanisms in T800/924C toughened carbon-epoxy composite materials**, *Journal of Reinforced Plastics and Composites*, Vol. 33, Issue 2, pp: 202-211 (January 2014).
10. Laraib Alam Khan, Ali Hasan Mahmood, Bilal Zahid, **Mechanical Properties of Composites Made from Locally Manufactured Carbon Fabrics and the Composites Produced from Air-Textured Glass Yarns**, *Fibers and Polymers*, Vol. 15, Issue 5, pp: 1004-1009 (May 2014).
11. Ali Hasan Mahmood, R.H. Gong, I. Porat, **Use of Fabrics and Composites Made from Air Textured Core-and-Effect Glass Yarn for Improved Properties of Textile Composites**, *NED University Journal of Research – Structural Mechanics*, Vol. 11, Issue 3, pp: 39-48 (July 2014).
12. Muhammad Ali, Ali Hasan Mahmood, Sheraz Hussain & Fariduddin Ahmed. **An Investigation into the Antibacterial Properties of Bamboo/Cotton Blended Fabric and Potential Limitations of the Test Method AATCC 147**. *Journal of Natural Fibers*, Published online by Taylor & Francis online (12 May 2019).

BOOK CHAPTER CONTRIBUTION

L.A. Khan, A.H. Mahmood, 2016, **Cost-effective composites manufacturing processes for automotive Applications**, In: J. Njuguna ed. *Lightweight Composite Structures in Transport: Design, Manufacturing, Analysis and Performance*, pp. 93-119. Woodhead Publishing Series in Composites Science and Engineering: Number 67 (Elsevier) (ISBN: 9781782423256).

PROFESSIONAL / SCIENTIFIC MEETINGS ATTENDED

- Attended a "**Seminar on Textile Industry Management for Pakistan II**" organized by Fujian Foreign Trade and Economic Cooperation Officials' Training Centre, Fuzhou, Fujian, China from October 26, 2015 to November 26, 2015.
- Attended Xinjiang Forum on "**Sustainable Development of Textile Industry under 'Paris Climate Agreement'**" theme "Green & Recycling, Intelligent Manufacturing, Spinning Future Together" organized by Jinsheng Group, Urumqi, Xinjiang, China on September 17-19, 2016

INTERNSHIPS AND PROJECTS

- Redesigned the glue application device of the rotary printing machine as final year project for Gul Ahmed Textile Mills Landhi, Karachi.
- Internship in the processing department of Gul Ahmed Textile Mills, Landhi, Karachi. During five weeks internship program worked on the project of “STENTER STUDY” and made a report on this project.
- Internship in the spinning department of Al-Karam Textile Mills Ltd, Landhi, Karachi for duration of three weeks.
- Attended four weeks training program, arranged by NED, UET at Clariant

COMPUTER SKILLS

Ability to work in MS-Word, MS-Excel, MS-Power Point & MS-Out Look.