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HEC Approved PhD Supervisor, 2019-2025
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Academic Qualifications

- ✓ In 2017, Ph.D. in Garment Engineering from the Heriot-Watt University, Scotland, United Kingdom.
- ✓ In 2008, Master of Engineering in Textile (CGPA: 3.70 out of 4.0) from the NED University of Engineering and Technology, Pakistan.
- ✓ In 2001, Bachelor of Engineering in Textile Engineering with **Distinction** from the NED University of Engineering and Technology, Pakistan.

Academic Achievements

- ✓ In 2025, one of my research project ***Energy Harvesting by Soft Hybrid Nano Generator*** have won third prize of poster presentation at ICKT 2025, National Textile University, Faisalabad (NTU).
- ✓ In 2025, earned financial rewards in the return of research publication.
- ✓ In 2024, earned financial rewards in the return of research publication.
- ✓ In 2024, earned Best Researcher Award 2023 from ASRB, NED UET.
- ✓ In 2023, earned financial rewards in the return of research publications.
- ✓ In 2022, earned 500 US Dollar reward and commendation letter to recognize the outstanding merit displayed in the return of research publication during year 2020 from NED Alumni Association of South California, USA.
- ✓ In 2019, earned PKR1,00,000 financial reward [DR (Estab)/ (PersNO.2385) / 8838 dated 1st October 2019] in the return of research publications.
- ✓ In 2010, NED UET granted a Ph.D. scholarship at Heriot Watt University, Scotland, UK.
- ✓ In 2009, VC NED UET, Engr. Abul Kalam recognizes me as an excellent presenter on presenting a technical Talk regarding availed facilities at Department of Textile Engineering in front of HEC delegation and Pakistan Atomic Energy Commission, Dr. Samar Mubarakmand.

Professional Achievements

- ✓ I am recently appointed as an Associate Professor in the Department of Textile Engineering at NED University of Engineering and Technology, Pakistan, effective 6th October 2025. Prior to this, I have been serving as an Assistant Professor (BPS-19) since 12th June 2008. Additionally, I have held the position of Director, Directorate of University Advancement and Financial Assistance since 18th January 2024.
- ✓ I have served as a Director, Directorate of Industrial Liaison from 11th October 2017 to 18th January 2024 in NED University of Engineering and Technology Pakistan.
- ✓ I have organized as an Expert Facilitator, one full day Industrial Technical Training section on the Topic**: Troubleshooting relating Garment Manufacturing** dated 25/11/2017 under the umbrella of CCEE, NED UET to facilitate the Textile Industries of Pakistan Human resource capacity building on technical ground which I have expertise built during my Ph.D. career at Heriot Watt University, United Kingdom.

Academic Career

- ✓ I have served as convenor and member for the development and revision of undergraduate curriculum, including TE-453 Garment Manufacturing, TE-455 Advanced Garment Manufacturing, TS-357 CAD/CAM in Textile Apparel, TE-351 Computer-Aided Design, and TS-359 Denim Manufacturing.
- ✓ I have taught Pre-Spinning processes, Textile Yarn Manufacturing, Fabric Forming Technique Knitting, Textile Printing, Polymer and Fiber Science, Garment Manufacturing and Textile Merchandising courses at undergraduate level. Technical Textile, Apparel and Merchandising, Total Quality Management and Project Management at Master level.
- ✓ I have performed administrative duties like Class Advisor, Counselor, FYDP committee member, FYDP coordinator and an arranging an industrial visit, job placement opportunities for students to explore their academic background with real industrial exposure.
- ✓ I have supervised and examined at least 50 FYDPs

Industrial Experience

I have vast industrial experience (2001-2008) in different Textile fields like Spinning, Weaving, Knitting and Garment as under:

- ✓ Three years experienced as a Factory Manager in Al-Gousia Knitting Factory and Industries and in addition three years more as a Textile Consultant.

- ✓ Three years experienced as a Technical Manager in Spectra Fabrics (Pvt.) Limited, Pakistan.
- ✓ Two years experienced as a Senior Spinning Manager in Jubilee Spinning and Weaving Mills, S.I.T.E. Karachi, Pakistan.
- ✓ One year experienced as an Assistant Spinning Manager in Latif Textile Mills, Nooriabad.

Professional Services

- ✓ External Member, Board of Studies (BoS), Textile Engineering and Design, reference No.: 18/R/S.A.A./BoS-TED/BUITEMS/3321-28, dated: 15-4-2025.
- ✓ PEC- Program Evaluator (PEV)/ Expert of relevant discipline, dated 20 June ,2022
- ✓ University Representation in KCCI Education Sub-Committee. Letter No. KCCI/H&E/21-22/3931 dated 30-12-2021
- ✓ University Representation in KCCI Education Sub-Committee. Letter No. KCCI/Pres I-2/UN/H&E/20-21/1571 dated 30-11-2020.
- ✓ Subcommittee member of procurement of uniform articles of Government of Sindh Police Department for the financial year 2019-20.
- ✓ Chair Board of Review (BoR), Directorate of Industrial Liaison, NED UET, 2017-2023
- ✓ Member of SENATE, NED UET, 2018-2023
- ✓ General Secretary NED Teacher Association (NETA: 2018-19)
- ✓ Member of Board of Review (BoR) at University Level, NED UET, Since 2017
- ✓ Member of Board of Review (BoR), In 2018 CINETIC Department, NED UET

Supervised Master / Ph.D. Projects

Ms Sobouhi Ashraf, Department of Telecommunication Engineering, NED UET (completed in 2024)

Reference No.Acad/46(G)/47051/51624 dated 7th June 2024, Co-Supervised MS research project titled "Fabric Defect Identification and Classification using Long Short Term Memory-Convolution Neural Network."

Ms Erum Gilal, Department of Telecommunication Engineering, NED UET (Completed in 2023)

Reference No. NED/Acad/46(G)/11759 dated 30th November 2022, Co-Supervised MS research project titled "Design and Implementation of a Body Sensors Network Using Conductive Yarn based Fabric."

Ms. Noreen Akram, Department of Telecommunication Engineering, NED UET (Completed in 2025)

Reference No. NED/Acad/50(48)/11402 dated 25th November 2022, Co-Supervised Ph.D. research project titled "Intelligent Real Time Fabric Weave Identification and Characterization Using Visual Sensors Network for Textile Applications."

International Journal Reviewer

- ✓ Textile Research Journal (0040-5175 / 1746-7748, Q2, W category), Sage Publications Ltd, 1 Olivers Yard, 55 City Road, London, England, EC1Y 1SP
- ✓ Fibers and Polymer (1229-9197 / 1875-0052, Q2, W category), Korean Fiber Soc, Korea Science Technology Ctr #501 635-4 Yeogsam-Dong, Kangnam-Gu, Seoul, South Korea, 135-703
- ✓ Journal of Physics: Condensed Matter (0953-8984), IOP Publishing Ltd, Temple Circus, Temple Way, Bristol, England, BS1 6BE
- ✓ Applied Mechanics and Materials (1662-7482), Trans Tech Publications Ltd Scientific.Net.
- ✓ Journal of Nano Research (1662-5250/1661-9897, Q4, W category), Trans Tech Publications Ltd Scientific.Net.
- ✓ Journal of Education, Society and Behavioural Science (ISSN: 2456-981X).
- ✓ Journal of Scientific Research and Reports (ISSN: 2320-0227).
- ✓ Asian Journal of Language, Literature and Culture Studies, Ms. M. B. Mondal, Ph.D.
- ✓ Journal of Global Economics, Management and Business Research (ISSN: 2454-2504).

International Conferences Contribution

- ✓ Appointed as a member of the Technical Review Committee for the 15th Spring World Congress on Engineering and Technology (SCET 2026), to be held from April 17 to 19, 2026.
- ✓ Served as an Organizing Committee Member for the 4th NED International Textile Conference and the 5th All Pakistan DICE Textile Innovation Event 2020, held on March 2–3, 2020, at NED University of Engineering & Technology, organized by the Department of Textile Engineering.
- ✓ Served as a Session Chair at the International Conference on Materials Engineering and Nanotechnology, held from December 2nd to 5th, 2019, in Kuala Lumpur, Malaysia.

- ✓ Served as a member of the Technical Review Committee for the 3rd NED International Textile Conference (3rd NEDITC 2018), held on January 10–11, 2018, at NED University of Engineering & Technology.

Research Funding

1) As per Reference No. Acad/50/48/11402 dated 25/11/2022, NED University of Engineering and Technology approved a grant of 1 million PKR for the PhD research work of Ms. Noreen Akram.
2) Earned Travel grant from NED University [DR (Estab)/ (Pers NO.2385) / 9580 dated 25th October 2019] for international conference on Materials Engineering and Nanotechnology, 2nd -5th Dec 2019, Kuala Lumpur Malaysia.
3) Won FYDP funding:
   - ✓ NGIRI-2024-25133 Fabrication and Characterization of Hollow Yarn
   - ✓ NEDAASC FYP Funding 2024 Glow in the Dark Photoluminescence Fabric for Safety Textile
   - ✓ NIGRI -2023-21360 Development of Odorless Clothing
   - ✓ NIGRI -2023-20868 Removal of Particulate Matter (PM) with Biomass Based Air Filter,
   - ✓ NIGRI -2022-12495 Non-Destructive Classification of Woven Fabrics Using Machine Learning

Funding and Financial Contributions

1. In 2023, received formal appreciation from the Chairman and Dean, Textile Engineering Department for saving 3,650 CHF in sourcing spinning machine spare parts from Rieter, Switzerland.
2. In 2022, I established the Garment Manufacturing Laboratory in the Textile Engineering Department with funding of PKR 5.0 million provided by UWDP.
3. Proactively coordinated and secured 40 cotton laps (valued at PKR 0.25 million) from Al-Karam Textile Mills (Pvt.) Ltd., enhancing the Yarn Manufacturing Laboratory with essential materials to facilitate hands-on training and practical experience for students.
4. Proactively coordinated and secured 16 cotton laps (valued at PKR 0.25 million) from Soorty Enterprises Pvt Ltd, enhancing the Yarn Manufacturing Laboratory with essential materials to facilitate hands-on training and practical experience for students.
5. As a director, Directorate of Industrial Liaison fetched industrial funding for NED Career Fair:
   - ✓ In 2023, 1.755 million PKR
   - ✓ In 2022, 1.25 million PKR
   - ✓ In 2019, 0.43 million PKR

6. Organized the inauguration of the Textile Fabric Manufacturing Laboratory on 30th August 2008 as Lab In-Charge, ensuring looms were fully functional to provide hands-on experience for undergraduate students.

International Conferences Attended

- ✓ 2nd International Conference attended on CPEC: Joining hands for Sustainable Development (ICCJSD), December 23rd -24th, 2022, NED UET.
- ✓ 3rd International Conference attended on Innovations in Computer Science & Software Engineering (ICONICS-2022), December 14-15, 2022, NED UET.
- ✓ International Conference on Sustainable Engineering & Development (ICSED-2022) attended on November 25th -26th, 2022 at Marriott Hotel, Karachi.
- ✓ 5th NED-ITC 2022 International Scientific Conference, Bridging the Gap between Industry and Academia through Research and Innovation, attended and member of organizing committee which was organized by Textile Engineering Department NED University. 16th-17th November 2022
- ✓ 7th International Electrical and Engineering Conference (IEEC)-2022 at NED UET, attended on 25th- 26th March 2022 NED UET.
- ✓ 1st International Conference on Applied Physics and Engineering (ICAPE 2021) attended on 16th -17th September 2021 at Syed Mahmood Alam Auditorium, NED UET.
- ✓ 1st International Conference on Advances in Material Science and Environmental Engineering 2021 (ICAMSEE-2021) attended on 25th & 26th June, 2021 at Syed Mahmood Alam Auditorium, NED UET.
- ✓ 10th International Mechanical Engineering Conference (IMEC-2021) attended on Friday 12th February, 2021 at Video Conferencing Hall, NED UET.
- ✓ 4th NEDITC-DICE-2020 International Scientific Conference for research in the field of Textile Engineering and Technology attended and has been a member of the scientific committee and a reviewer which was organized by Textile Engineering Department NED University.
- ✓ 3rd NEDITC-2018 International Scientific Conference for research in the field of Textile Engineering and Technology attended and member of organizing committee which was organized by Textile Engineering Department NED University.
- ✓ The NED in collaboration with USA Alumni called DICE foundation is organized DICE Automotive Mega Event, 2017 to support and provides opportunity to grow Automotive Industry in Pakistan to globally competitive level. In this event all stakeholders Industries

and Public and Private Universities of Pakistan are invited to showcase their creative work and intellectual design project

- ✓ 2nd International Conference on Advance Materials & Process Engineering (AMPE-2017) attended which was organized by Faculty of Chemical & Process Engineering NED University.
- ✓ 2nd NEDITC 2016 International Scientific Conference for research in the field of Textile Engineering and Technology attended which was organized by Textile Engineering Department NED University.

Research Journal Publications

Main Author

1) **Amir, M.**, Rizwan A.B., Saqib J.R., Waqas M., (2025). Advanced Algorithm-Based Laser Measurement System for Accurate Seam Pucker Evaluation. Polimery, Accepted **(JCR, HEC-W Category), Corresponding author.**
2) **Amir, M.,** & Ali, M. (2025). Biomass activated carbon air filter for particulate removal. Polimery, 70(4), 266–277. https://doi.org/10.14314/polimery.2025.4.5 **(JCR, HEC-W Category), Corresponding author.**
3) **Amir, M.** (2025). Development of Odorless Fabric by Using Modified Complex Coacervation Technique. Journal Kejuruteraan, 37(1), 179-190. https://doi.org/10.17576/jkukm-2025-37(1)-12 **(JCR, HEC-X Category), Corresponding author.**
4) **Amir, M.,** Asghar, M. S. A., (2024). Synthesis and application of WO_3/PVA Nano composite for Antibacterial and Thermal Insulation. Materials Research Express. https://doi.org/10.1088/2053-1591/ad8a1f. **(JCR, HEC-W Category), Corresponding author.**
5) **Amir, M**., & Asim, F. (2024). Unveiling the dynamics of seam performance: a regression analysis approach for predictive modeling. Engineering Research Express. https://doi.org/10.1088/2631-8695/ad4a25 **(JCR, HEC-X Category), Corresponding author.**
6) **Amir, M**., Butt, R.A., Naqvi, S., Hasnay, S.F., (2024). Powering of IOTs through Single Jersey Wearable Tribo-Electric Nano Generator. Engineering Research Express. DOI 10.1088/2631-8695/ad2d9b **(JCR, HEC-X Category), Corresponding author.**
7) **Amir, M**., Asghar, M. S. A., Ali. S.N., (2024). Characterization and antimicrobial properties of cotton fabric loaded with green synthesized silica nanoparticles. Journal

Kejuruteraan: 36(2). DOI: dx.doi.org/10.17576/jkukm-2024-36(2)-38 **(JCR, HEC-Y Category), Corresponding author.**

8) **Amir, M**., Shenela N., Farhana N. (2023). Investigation into shrinkage of stretchable denim fabric and its consumption in marker making by varying drying temperatures. Mehran University Research Journal of Engineering and Technology, 42(4), 41-49. http://dx.doi.org/10.22581/muet1982.2304.2871. **(JCR, HEC-Y Category), Corresponding author.**

9) **Amir, M**. (2023). Sustainable solution of sewing thread attributes on seam pucker. Mehran University Research Journal of Engineering and Technology, 42(3), 25-32. https://doi.org/10.22581/muet1982.2303.03 **(JCR, HEC-Y Category), Corresponding author.**

10) **Amir, M**., Ahmed, K., Hasany, S. F., & Butt, R. A. (2023). Non-Covalent Bonding of Green Synthesized Copper Nanoparticles to enhance Physico-chemical behavior of Sulfur-Dyed Cotton Fabric. AATCC Journal of Research, 24723444231161742. **(JCR, HEC-Y Category)**

11) **Amir, M.,** Hasany, S. F., & Asghar, M. S. A. (2023). Modification of bentonite nanoclay for textile application. Polimery, 68(2), 79-85. https://doi.org/10.14314/polimery.2023.2.1 **(JCR, HEC-Y Category), Corresponding author.**

12) **Amir, M**. (2022). Load extension behavior of spun sewing threads on seam slippage. Quaid-E-Awam University Research Journal of Engineering, Science & Technology, Nawabshah, 20(02), 28-37. https://doi.org/10.52584/QRJ.2002.04. **(HEC-Y Category), Corresponding author.**

13) **Amir**, G. K. S. M. (2020). An experimental analysis in to thread cycling recovery on seam appearance. Journal of Fashion Technology and Textile Engineering, 8(5).DOI: 10.37532/jftte.2020.8(5).197 , **Corresponding author.**

14) **Amir M** (2020) Experimental Analysis of Static Thread Tension on Seam Appearance. Journal of Fashion Technology and Textile Engineering 8(3).DOI: 10.37532/jftte.2020.8(3).193. , **Corresponding author.**

15) **Amir, M.,** Leaf, G.A. and Stylios, G.K., (2020). A model of seam pucker and its applications Part I: theoretical. The Journal of the Textile Institute, 111(1), pp.64-67. https://doi.org/10.1080/00405000.2019.1646077 **(JCR, HEC-X Category)**

16) **Amir, M.,** Leaf, G.A. and Stylios, G.K., (2020). A Model of Seam Pucker and Its Applications. Part II: Experimental. The Journal of the Textile Institute, 111(1), pp.60-63. https://doi.org/10.1080/00405000.2019.1646076 **(JCR, HEC-X Category)**

Co-author

17) Naqvi, S., **Amir, M.**, Naeem, F., Dias, T., & Lewis, P. S. (2023). An Investigation into Design of Blood Pressure Cuffs Using the Tekscan Pressure Sensing System. AATCC Journal of Research, 10(2), 80-88. DOI:10.1177/24723444221132326. **(JCR, HEC-Y Category)**

18) Asghar, M. S. A.., **Amir, M.**, Hussain, U.., & Sabri, M. M. (2023). Zinc and graphene oxide composites as new protective coatings for oil and gas pipes. Polimery, 68(7-8), 378-385. https://doi.org/10.14314/polimery.2023.7.3 **(JCR, HEC-Y Category), Corresponding author.**

19) Noreen A., Rizwan B.A., **Amir, M.** (2024). Modification of a Convolutional Neural Network for the Weave Pattern Classification. Mehran University Research Journal of Engineering and Technology, 43(2), 79-90, https://doi.org/10.22581/muet1982.2998. **(JCR, HEC-Y Category), Corresponding author.**

20) Akram N., Butt, R.A., **Amir, M.,** (2025). AI-Driven Fabric Classification: Real-Time Implementation for Sustainable Textile Practices in Industry 5.0. Materials Research Express. https://doi.org/10.1088/2053-1591/add98f. **(JCR, HEC-W Category)**

21) Jamal, T., Hasany, S. F., **Amir, M**., Tahir, M., Javed, S., & Sehar, U. (2023). Fabrication and Characterization of Antimony doped Iron oxide Nanoparticles. Quaid-E-Awam University Research Journal of Engineering, Science & Technology, Nawabshah., 21(01), 65-68. https://doi.org/10.52584/QRJ.2101.08 **(HEC-Y Category), Corresponding author.**

22) Zahoor, A., Ahmed, G., **Amir, M**., Butt, F., & Naqvi, A. A. (2023). Effect of varying percentages of Co3O4 Nanoparticles on the Behavior of (ORR/OER) Bifunctional Co3O4/α-MnO2 Electrocatalyst. Tecciencia, 18(34), 43-52. https://doi.org/10.18180/tecciencia.2023.34.4. **(Web of Science, HEC-Y Category)**

23) Butt, R.A.; Rehman, T.; **Qureshi, M.A**. (2023). A Smart IoT-Enabled Cage for the Farming of Ground Birds. Eng. Proc. 46, 26. https://doi.org/10.3390/ engproc2023046026. **(Scopus, HEC-Y Category)**

24) Abdullah, M., Hasany, S., **Amir Qureshi, M**., & Hussain, S. (2022, September). Cost-Effective Synthesis of Cobalt Ferrite Nanoparticles by Sol-Gel Technique. Materials Science Forum (Vol. 1067, pp. 213-219). Trans Tech Publications Ltd. https://doi.org/10.4028/p-jdlq11. **(Scopus)**

25) Hasany, S.F., Hussain, S., Ali, S.M.U., Abdul-Kadhim, W. **Amir, M**., (2020). ZnO nanostructures: comparative synthetic and characterization studies. Micro & Nano Letters, 15(14), pp.972-976. https://doi.org/10.1049/mnl.2019.0795 **(JCR, HEC-X Category)**

Conference Publications

1) **Qureshi, M.A**.; Butt, R.A.; Arfeen, M.Z.; Akram, N., (2022). Fully Automatic Weave Identification in Woven Fabrics Using Digital Image Processing. Eng. Proc. 20, 1. https://doi.org/10.3390/ engproc2022020001. **(Scopus)**
2) **Muhammad Amir**: ID M153: Investigation on the Mechanical Properties Of different woven Fabrics by Using Engineered Nano Clay." International Conference on Materials Engineering and Nanotechnology ICMEN 2019, 2nd-5th December 2019 Kuala Lumpur, Malaysia. **Corresponding author.**
3) C8-26 ''Effect of Green Synthesized Copper Nanoparticles In Comparison With Copper Salt On The Dye-ability Of Cotton Fabric Towards Sulphur Dye'' by [1]Shumaila Meraj ,[2]**Muhammad Amir** and [1]Kashif Ahmed, [1]Department of Chemistry,[2]Department of Textile Engineering, NED University of Engineering and Technology, at 4th International Conference on Bioscience and Biotechnology (BioTech-2019) "Pursuing innovation in Bioscience and Biotechnology to Solve local and Global Grand Challenges" 21st – 22nd February 2019 | Kuala Lumpur | Malaysia, ISBN 978-955-3605-24-5, **Corresponding author.**

Book Chapter Publication

1) Qureshi, M.A. (2025). Development of Wrinkle Resistant Textiles Using Nanoparticles. In: Repon, M.R., Mikučioniene, D., Haji, A. (eds) Nanoparticles Integrated Functional Textiles. Engineering Materials. Springer Nature, Cham. https://doi.org/10.1007/978-3-032-00246-4_9, **Corresponding author.**

Patents Filed

1) National Patent No. 460/2018 "Modified Synthesized Technique for Temperature responsive Polymer Magnetic Nanohybrids for potential Targeted Drug carrier applications."
2) National Patent No. 188/2025 "Development of a Soft Hybrid Nanogenerator for Sustainable Energy Harvesting."
3) National Patent No. 190/2025 "IntelliInspect: A Real-Time System for Fabric Quality Inspection."

Membership

1. Member (M-21580/KAR-3904) of Central Council of the IEP since 28th June 2021
2. Life-time member as a Professional Engineer (Textile/38) at Pakistan Engineering Council since 2001
3. Member NEDAN since 2001

References

To be furnished on request.