

# Saheeb Ahmed Kayani

Assistant Professor

College of Electrical & Mechanical Engineering

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## About

Dr. Saheeb Ahmed Kayani is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Saheeb Ahmed Kayani has a PhD in Mechanical Engineering. Dr. Saheeb Ahmed Kayani has published 29 research articles & conference papers having a citation count of 27, carried out 0 projects and filed 8 intellectual property.

## Qualifications

<b>PhD in Mechanical Engineering</b> Capital University of Science and Technology, Islamabad , Pakistan	2016 - 2024
<b>MS in Mechanical Engineering</b> NUST, Islamabad , Pakistan	2004 - 2007
<b>BE in Mechatronics Engineering</b> NUST, Islamabad , Pakistan	2001 - 2004

## Experience

<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2023- Present
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2022 - 2023
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2013 - 2022
<b>Lecturer</b> College of Electrical & Mechanical Engineering	2011 - 2013
<b>Demonstrator</b> College of Electrical & Mechanical Engineering	2007 - 2011
<b>Asst Prof</b> NUST , H-12, Islamaabad	2007 - 2022

Awards

<b>CEME Best Innovator Award</b> NUST College of E&ME Best Innovator Award.	2020
<b>7th FPCCI Achiev. Award</b> Medal received from the President of Pakistan in a ceremony held in the Aiwan-e-Sadr in the award category of scientific and industrial research.	2019
<b>Award for Tech. Licensing</b> Special award for technology and intellectual property rights licensing to national industry.	2019
<b>Productive Scientist</b> Name included in the directory of Productive Scientists of Pakistan (2017) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 64th most productive scientist in the discipline of engineering sciences and 36th most productive scientist in the same discipline under the age of 40 years.	2018
<b>Comdt. Med. of Excellence</b> Medal and merit certificate for signing of Pakistan's first academia-industry intellectual property licensing agreement.	2018
<b>SRC Chem. Tech. Award</b> Award for indigenous development of leather fleshing and shaving blades by SRC (Pvt) Ltd, Lahore, at third innovation summit organized by UET Peshawar, Peshawar.	2017
<b>Technology Award</b> Award for indigenization of leather fleshing and shaving blades technology at third innovation summit organized by UET Peshawar, Peshawar.	2017
<b>Productive Scientist</b> Name included in the directory of Productive Scientists of Pakistan (2016) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 26th most productive scientist in the discipline of engineering sciences and 14th most productive scientist under the age of 40 years in the same discipline.	2017
<b>Research Prod. Award</b> Research productivity award (2016) by Pakistan Council of Science and Technology, Government of Pakistan. Ranked 24th most productive scientist in Pakistan in 2016 and category 'A' scientist.	2017
<b>SATHA Innovation Award</b> Medal and certificate awarded by South Asian Chapter of Triple Helix Association, Italy, at second innovation summit organized by UET Peshawar, Peshawar.	2016
<b>CWT (Pakistan) Fellowship</b> Charles Wallace Visiting Fellowship by Charles Wallace Pakistan Trust, UK and British Council.	2014
<b>Productive Scientist</b> Name included in the directory of Productive Scientists of Pakistan (2013) published by Pakistan Council for Science and Technology, Government of Pakistan. Ranked 13th most productive scientist in the discipline of engineering sciences.	2014
<b>Winner, Tech. Paper Comp.</b> Winner of technical paper competition in All Pakistan Engineering Conference organized by IEE and Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Swabi.	2005

Professional Memberships

PEC	Since 2006
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Research Articles

<b>Exploring the synergy between sustainability and resilience in supply chains under stochastic demand conditions and network disruptions</b> <i>Saheeb Ahmed Kayani Salman Sagheer Warsi</i> <i>Results in Engineering</i> , Volume:26, Article Number 104954 <b>Impact Factor:</b> 6.000   <b>Quartile:</b> 1 <b>DOI:</b> <a href="https://doi.org/10.1016/j.rineng.2025.104954">https://doi.org/10.1016/j.rineng.2025.104954</a>	2025
<b>A Smart Decision Support Framework for Sustainable and Resilient Supplier Selection and Order Allocation in the Pharmaceutical Industry</b> <i>Saheeb Ahmed Kayani Salman Sagheer Warsi Raja Awais Liaqait</i> <i>Sustainability</i> , Volume 15, Issue 7, Article Number 5962 <b>Impact Factor:</b> 3.9   <b>Quartile:</b> 2   <b>Citations:</b> 23	2023

DOI: <https://doi.org/10.3390/su15075962>

<b>Mangla Dam Raising: A Review</b> <i>Shaheeb Ahmed Kayani</i> <i>Science, Technology and Development</i> , Volume 32, Issue 2, Pages 149-153 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2013
<b>Identification, Testing and Analysis of a Meteorite Debris from Jhelum, Pakistan</b> <i>SAHEEB AHMED KAYANI</i> <i>Science Technology and Development</i> , Volume 31, Issue 3, Pages 280-287 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2012
<b>Mineralogical and Thermal Analyses of a Bangle Shard from Harrappa, an Indus Valley Settlement in Pakistan</b> <i>Saheeb Ahmed Kayani Rehan ul Haq Siddiqui</i> <i>Analele Stiintifice ale Universitatii "Al. I. Cuza" din Iasi - Seria Geologie</i> , Vol. 57, No. 1, pp. 69-73 <b>Impact Factor:</b> 0	2011
<b>Using Combustion Analysis to Determine Origins and Nature of a Rare Meteorite Debris</b> <i>Shaeeb Ahmed Kayani</i> <i>Military Technologist</i> , Pages 46-49 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2010
<b>Global Darwin: Long Kept under Wraps in Pakistan</b> <i>Saheeb Ahmed Kayani</i> <i>Nature</i> , Volume 462, Issue 7276, Pages 984-984 <b>Impact Factor:</b> 34.48   <b>Quartile:</b> 1   <b>Citations:</b> 1 <b>DOI:</b> 10.1038/462984b	2009
<b>A Novel Methodology for Automated Synthesis of Mechatronic Systems Designs Using Bond-Graphs and Genetic Programming</b> <i>Saheeb Ahmed Kayani Afzaal M. Malik</i> <i>NUST Journal of Engineering Sciences</i> , Volume 1, Issue 1, Pages 18-29 <b>Impact Factor:</b> 0 <b>DOI:</b> 10.24949%2Fnjjes.v1i1.23	2008
<b>Verifying Experiment for Automated Design of Mechatronic Systems using Bond-Graph Modelling and Simulation and Genetic Programming</b> <i>Muhammad Afzaal Malik Saheeb Ahmad Kayani</i> <i>International Journal of Computer Applications in Technology</i> , Vol. 32, No. 3, Pages 173-180 <b>Impact Factor:</b> 0   <b>Citations:</b> 1 <b>DOI:</b> 10.1504/IJCAT.2008.020952	2008
<b>Review and Implementation of a Novel Methodology for Automated Design of Mechatronic Systems</b> <i>Shaheeb Ahmed Kayani</i> <i>Journal of Engineering and Applied Sciences</i> , Vol. 27, No. 1 <b>Impact Factor:</b> -	2008
<b>On Automated Design of Mechatronic Systems through Bond-Graphs and Genetic Programming</b> <i>Saheeb Ahmed Kayani</i> <i>IEEE Multi Disciplinary Engineering Education Magazine</i> , Volume 2, Issue No 4, Pages 15-17 <b>Impact Factor:</b> 0 <b>DOI:</b> -	2007

## Conference Proceedings

<b>Elemental composition of a bangle shard from Harrappa, an Indus valley settlement</b> <i>Saheeb Ahmed</i> <i>10th Swiss Geoscience Meeting</i> , res.country(43,) <b>Citations:</b> N/A <b>DOI:</b> N/A	2012
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<b>Mangla dam raising project (Pakistan): general review and socio-spatial impact assessment</b>	2012
<i>Saheeb Ahmed</i> <i>10th Swiss Geoscience Meeting</i> , res.country(43,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://memsic.ccsd.cnrs.fr/GIP-BE/hal-00719226">https://memsic.ccsd.cnrs.fr/GIP-BE/hal-00719226</a>	
<b>X-ray diffraction and thermal analyses of a bangle shard from an Indus valley settlement</b>	2011
<i>Kayani Saheeb-Ahmed</i> <i>9th Swiss Geoscience Meeting</i> , res.country(43,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Psychosocial effects of natural (cosmic) phenomena: a case study</b>	2010
<i>Saheeb Ahmed Kayani</i> <i>8th Swiss Geoscience Meeting</i> , res.country(43,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Combustion analysis of a meteorite debris</b>	2010
<i>Saheeb Ahmed Kayani</i> <i>8th Swiss Geoscience Meeting</i> , res.country(43,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Establishing the origins of a meteorite debris by using carbon abundance</b>	2010
<i>Saheeb Ahmed Kayani</i> <i>International Symposium on Geology of Natural Systems</i> , res.country(188,)	
<b>Citations:</b> N/A	
<b>DOI:</b> -	
<b>Identifying a meteorite ablation debris near village Lehri in Potohar region of Pakistan</b>	2009
<i>Saheeb Ahmed Kayani</i> <i>Geological Society of New Zealand and New Zealand Geophysical Society Joint Annual Conference</i> , res.country(170,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>On design and fabrication of a prototype teleoperated mobile surveillance robot</b>	2009
<i>Saheeb Ahmed Kayani Waqar Haider Bhatti Khawar Khalil Jarra</i> <i>2009 International Conference on Emerging Technologies</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICET.2009.5353184	
<b>Using combined XRD-XRF analysis to identify meteorite ablation debris</b>	2009
<i>Saheeb Ahmed Kayani</i> <i>International Conference on Emerging Technologies</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> -	
<b>Theoretical foundations of automated synthesis using bond-graphs and genetic programming</b>	2008
<i>SAHEEB AHMED</i> <i>2008 4th International Conference on Emerging Technologies</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICET.2008.4777466	
<b>Bond-graphs + genetic programming: analysis of on automatically synthesized rotary mechanical system</b>	2008
<i>SAHEEB AHMED AFZAAL MALIK</i> <i>10th Genetic and Evolutionary Computation Conference</i> , res.country(233,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Search for human competitive results in open ended automated synthesis of a primordial mechatronic system</b>	2008
<i>SAHEEB AHMED</i> <i>10th Annual Genetic and Evolutionary Computation Conference held from 12-16 July 2008 in Atlanta, United States</i> , res.country(233,)	

<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Genetic programming for wireless internet access point configuration in a small Pakistani town</b>	2007
SAHEEB AHMED AFZAAL MALIK	
3rd International Conference on Emerging Technologies, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICET.2007.4516331	
<b>Combining bond-graphs with genetic programming for unified/automated design of mechatronic or multi domain dynamic systems</b>	2007
SAHEEB AHMED AFZAAL MALIK	
Genetic and Evolutionary Computation Conference (GECCO-2007), res.country(231,)	
<b>Citations:</b> N/A	
<b>DOI:</b> N/A	
<b>Automated design of mechatronic systems using bond-graph modeling and simulation and genetic programming</b>	2007
SAHEEB AHMED AFZAAL MALIK	
2007 International Bhurban Conference on Applied Sciences & Technology, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/IBCAST.2007.4379917	
<b>Physical and mathematical modeling of NUSTBOT-I through bond-graph technique</b>	2006
Saheeb Ahmed Kayani	
2006 IEEE International Multitopic Conference , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/INMIC.2006.358210	
<b>Modeling and simulation of biped kinematics using bond-graphs</b>	2006
SAHEEB AHMED Afzaal M. Malik	
2006 International Conference on Emerging Technologies, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICET.2006.336001	

## Editorial Activities

<b>2590-1230</b>	2025
Reviewed Papers for Journals	
<b>Impact Factor:</b> 6.0	
	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> 6.0	
	2019
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.21	
	2018
Reviewed Papers for Journals	
<b>Impact Factor:</b> 3.21	

Copyrights

Patents

<b>A Controlled Hardness Method of Production for Leather Fleshing and Shaving Blades</b> Status: Filed	2019
<b>A Simplified Method of Production for Leather Fleshing and Shaving Blades</b> Status: Filed	2019
<b>Mini Wheel for Mobile Robot</b> Status: Granted	2015

Industrial Designs

<b>Two DOF Adjustable Metal Strip Feeding Device (Class-01)</b> Status: Granted	2019
<b>Specialized Rig for Post-Fabrication Processing of Leather Fleshing / Shaving Blades (Class-01)</b> Status: Granted	2018
<b>Leather Shaving Blade (Class-01)</b> Status: Licensed	2018
<b>Leather Fleshing Blade (Class-01)</b> Status: Licensed	2018
<b>Induction Heating Coil for Leather Fleshing / Shaving Blade (Class-01)</b> Status: Granted	2018

Trademarks