

## Anas Bin Aqeel

Assistant Professor

College of Electrical & Mechanical Engineering

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## About

Dr. Anas Bin Aqeel is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Anas Bin Aqeel has a PhD in Advanced Materials And Structural Mechanics. Dr. Anas Bin Aqeel has published 23 research articles & conference papers having a citation count of 108, carried out 1 projects and filed 4 intellectual property.

## Qualifications

<b>PhD in Advanced Materials And Structural Mechanics</b> Peking University , China	2015 - 2020
<b>MS in Simulation And Automotive Engineering</b> University of Leeds , United Kingdom	2010 - 2012
<b>BE in Mechanical Engineering</b> NUST, Islamabad , Pakistan	2006 - 2010

## Experience

<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2021- Present
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2020 - 2021
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2014 - 2020
<b>Lecturer</b> College of Electrical & Mechanical Engineering	2013 - 2014
<b>Lecturer</b> COMSATS University , COMSATS Road off GT road, Comsats University Rd, Sahiwal, Sahiwal District, Punjab 57000	2012 - 2013

## Awards

<b>PKU International Award</b> Awarded Peking University "PKU International Students Academic Award" from period 2015-2020.	2019
<b>Chinese Govt. Scholarship</b> Awarded Chinese Government Scholarship throughout PhD studies.	2015

## Research Projects

<b>National Projects</b>	
<b>Design and Development of a Multipurpose Agribot for Smart Farming</b> <b>Funding Agency:</b> PSF <b>Amount:</b> PKR 4,501,300.00 <b>Status:</b> Completed	2019

## International Projects

Research Articles

Applications of piezoelectric-based sensors, actuators, and energy harvesters2025

Hassan Elahi Hamid Jabbar Anas Bin Aqeel Ahsan Ali Aasia Farrukh Saira Bibi Wael A. Altabey Sallam A. Kouritem Mohammad Noori Mohammad Ali

Sensors and Actuators Reports , Volume 9, Article Number 100302

Impact Factor: 6.500 | Quartile: 1 | Citations: 2

DOI: <https://doi.org/10.1016/j.snr.2025.100302>

Droplet impact on wetted structured surfaces2022

Muhammad Mohasan Anas Bin Aqeel Huiling Duan Pengyu Lyu Yantao Yang

Applied Mathematics and Mechanics-English Edition , Volume 43, Issue 3, Pages 437-446

Impact Factor: 2.866 | Quartile: 1 | Citations: 6

DOI: [10.1007/s10483-022-2820-5](https://doi.org/10.1007/s10483-022-2820-5)

Effect of molybdenum disulfide on the performance of polyaniline based counter electrode for dye-sensitized solar cell applications2021

Usman Ghafoor Anas Bin Aqeel Uzair Khaleeq uz Zaman Taiba Zahid Muhammad Noman Muhammad Shakeel Ahmad

Energies , Volume 14, Issue 13, Article Number 3786

Impact Factor: 3.004 | Quartile: 3 | Citations: 7

DOI: <https://doi.org/10.3390/en14133786>

Cavity dynamics of water drop impact onto immiscible oil pool with different viscosity2021

Muhammad Mohasan Anas Bin Aqeel Pengyu Lv Yantao Yang Huiling Duan

Acta Mechanica Sinica , Volume 37, Pages 447-455

Impact Factor: 2.910 | Quartile: 2 | Citations: 8

DOI: <https://doi.org/10.1007/s10409-020-01032-4>

Effects of the actuation waveform on the drop size reduction in drop-on-demand inkjet printing2020

Anas Bin Aqeel Muhammad Mohasan Pengyu Lv Yantao Yang Huiling Duan Muhammad Mohasan Pengyu Lv Yantao Yang Huiling Duan

Acta Mechanica Sinica , Volume 36, Pages 983–989

Impact Factor: 1.975 | Quartile: 3 | Citations: 32

DOI: <https://doi.org/10.1007/s10409-020-00991-y>

Effects of nozzle and fluid properties on the drop formation dynamics in a drop-on-demand inkjet printing2019

Anas Bin Aqeel M. Mohasan Pengyu Lv Yantao Yang Huiling Duan

Applied Mathematics and Mechanics , Volume: 40, Issue: 9, Pages: 1239-1254

Impact Factor: 2.017 | Quartile: 1 | Citations: 25

DOI: DOI: [10.1007/s10483-019-2514-7](https://doi.org/10.1007/s10483-019-2514-7)

Effect of Thermal Conductivity on Enhanced Evaporation of Water Droplets from Heated Graphene–PDMS Composite Surfaces2019

Pratibha Goel Moutushi Dutta Choudhry Anas Bin Aqeel Xiyang Li Li-Hua Shao Huiling Duan

Langmuir , Volume 35, Issue 21, Pages 6916-6921

Impact Factor: 3.557 | Quartile: 2 | Citations: 12

DOI: <https://doi.org/10.1021/acs.langmuir.9b00799>

Conference Proceedings

Material Selection in Additive Manufacturing for Aerospace Applications using Multi-Criteria Decision Making2024

Muhammad Junaid Uzair Khaleeq uz Zaman Afshan Naseem Yasir Ahmad Anas Bin Aqeel

2nd International Conference on Modern Technologies in Mechanical & Material Engineering, res.country(177,)

Citations: N/A

DOI: <https://doi.org/10.1051/mateconf/202439801012>

Detection of Grape Clusters in Images Using Convolutional Neural Network2023

Muhammad Osama Shahzad Anas Bin Aqeel Waqar Shahid Qureshi

2023 International Conference on Robotics and Automation in Industry, ICRAI 2023, res.country(177,)

Citations: N/A

DOI: [10.1109/ICRAI57502.2023.10089582](https://doi.org/10.1109/ICRAI57502.2023.10089582)

Integrated Product-Process Design: Conceptual Framework for Data Driven Manufacturing Resource Selection2022

Uzair Khaleeq uz Zaman Mujtaba Rafique Ghoto Ali Siadat Aamer Ahmed Baqai Anas Bin Aqeel Usman Qamar

2022 2nd International Conference on Digital Futures and Transformative Technologies (IcoDT2), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICoDT255437.2022.9787394	
<b>Multi-Sensor SLAM for efficient Navigation of a Mobile Robot</b>	2021
<i>Muhammad Shahzad Alam Khan Danish Hussain Yasir Ali Faisal UI Rehman Anas Bin Aqeel Umar Shahbaz Khan</i>	
2021 4th International Conference on Computing & Information Sciences (ICCIS), res.country(177,)	
<b>Citations:</b> 2	
<b>DOI:</b> 10.1109/ICCIS54243.2021.9676374	
<b>A Meta-Model for Test Case Reduction by Reducing Cyclomatic Complexity in Regression Testing</b>	2021
<i>Ummer Farooq Abubakar Anas Bin Aqeel</i>	
2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICRAI54018.2021.9651395	
<b>An Optimized Magnetic Micro-Robotic System for Two-Dimensional Manipulation</b>	2021
<i>Muhammad Zohaib Akram Danish Hussain Anas Bin Aqeel Adnan Shujah Keenjhar Ayoub</i>	
2021 International conference on Robotics and Automation in Industry (ICRAI), res.country(177,)	
<b>Citations:</b> 1	
<b>DOI:</b> <a href="https://doi.org/10.1109/ICRAI54018.2021.9651417">https://doi.org/10.1109/ICRAI54018.2021.9651417</a>	
<b>Implementation of SLAM by using a Mobile Agribot in a Simulated Indoor Environment in Gazebo</b>	2021
<i>Muhammad Shahzad Alam Khan Danish Hussain Salman Khan Faisal UI Rehman Anas Bin Aqeel Umar Shahbaz Khan</i>	
IEEE, 2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)	
<b>Citations:</b> 2	
<b>DOI:</b> 10.1109/ICRAI54018.2021.9651448	
<b>Design and Development of Motor Controller and Electronic Differential System for Electric Vehicle Conversion</b>	2021
<i>Uzair Khaleeq uz Zaman Umar Shahbaz Khan Anas Bin Aqeel Ayesha Zeb Syed Hassan Ali Usama Athar Elizay Jehangir Muhammad Mubasher Saif</i>	
2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICRAI54018.2021.9651444	
<b>Development of Automated Guided Vehicle for Warehouse Automation of a Textile Factory</b>	2021
<i>Uzair Khaleeq uz Zaman Anas Bin Aqeel Kanwal Naveed Usman Asad Hassan Nawaz Muhammad Gufran</i>	
2021 International Conference on Robotics and Automation in Industry (ICRAI), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICRAI54018.2021.9651360	
<b>A Bio Inspired UAV Model based on Corvus Splendens</b>	2015
<i>A. Jameel S. Khalid S.Khalid Khurram Kamal Anas Aqeel S. Mathavan T. Awais Tayyab Zafar</i>	
7th IEEE International Conference on Fluid Power and Mechatronics, res.country(48,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/FPM.2015.7337223	
<b>Development of visual aspect of Porsche brand using CAD technology</b>	2015
<i>Anas Bin Aqeel</i>	
International Design Technology Conference held From 29 Jun to 01 July 2015 in Australia res.country(13,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.1016/j.protcy.2015.07.028">https://doi.org/10.1016/j.protcy.2015.07.028</a>	
<b>Investigation of thermal behaviour and kinetic analysis of Pakistani biomass: Rice husk, sugarcane bagasse and wheat straw using thermogravimetric analysis</b>	2015
<i>Qari M K Waheed Shahid Maqsood Rashid Nawaz Anas Bin Aqeel</i>	
2nd International Conference on Power Generation Systems and Renewable Energy Technologies 2015, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.1109/PGSRET.2015.7312212">https://doi.org/10.1109/PGSRET.2015.7312212</a>	

Book Chapters

<b>Reverse Engineering: Past, Present, and Future Prospects</b> <i>Anas Bin Aqeel Muhammad Irfan Aziz Uzair Khaleeq uz Zaman Nayyar Aafaq</i> In: <i>Handbook of Manufacturing Systems and Design: An Industry 4.0 Perspective</i> , Chapter 16, 1st Edition, Pages:34 <b>Citations:</b> N/A <b>DOI:</b> 10.1201/9781003327523-19	2023
<b>Computer-Aided Design, Computer-Aided Process Planning, and Computer-Aided Manufacturing</b> <i>Anas Bin Aqeel Uzair Khaleeq uz Zaman Shahid Aziz Aamer Ahmed Baqai</i> In: <i>Handbook of Manufacturing Systems and Design: An Industry 4.0 Perspective</i> , Chapter 2, 1st Edition, Pages:20 <b>Citations:</b> 2 <b>DOI:</b> 10.1201/9781003327523-3	2023
<b>Digital Twins in Smart Manufacturing</b> <i>Shahid Aziz Dong Won Jung Uzair Khaleeq uz Zaman Anas Bin Aqeel</i> In: <i>Handbook of Manufacturing Systems and Design: An Industry 4.0 Perspective</i> , Chapter 4, 1st Edition, Pages:16 <b>Citations:</b> 2 <b>DOI:</b> 10.1201/9781003327523-6	2023

Editorial Activities

<b>Fluids</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.8	2024
<b>Scientific Reports</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.8	2024
<b>Fire</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.0	2024
<b>The International Journal of Advanced Manufacturing Technology</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.226	2024
<b>Processes</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.8	2024
<b>Fluids</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.8	2024
<b>Symmetry</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.2	2023
<b>Applied Sciences</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.7	2023
<b>Fluids</b> Reviewed Papers for Journals <b>Impact Factor:</b> 1.9	2023
<b>Applied Sciences</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.7	2023
<b>The International Journal of Advanced Manufacturing Technology</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.4	2022
<b>Sensors</b> Reviewed Papers for Journals	2022

<b>Impact Factor: 3.9</b>	
<b>Applied Mechanics Reviews</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 14.3</b>	
<b>Applied mechanics</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 0</b>	
<b>International Journal of Advanced Manufacturing Technology</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor: 3.563</b>	
	2022
Reviewed Papers for Journals	
<b>Impact Factor: 0</b>	
	2022
Reviewed Papers for Journals	
<b>Impact Factor: 0</b>	
	2022
Reviewed Papers for Journals	
<b>Impact Factor: 0</b>	
	2021
Edited Journal Issue / Proceeding / Book	
<b>Impact Factor: 0</b>	
<b>International journal, advanced manufacturing technology</b>	2021
Reviewed Papers for Journals	
<b>Impact Factor: 2.633</b>	
	2021
Reviewed Papers for Journals	
<b>Impact Factor: 2.633</b>	
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<b>Impact Factor: 2.633</b>	
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Reviewed Papers for Journals	
<b>Impact Factor: 2.633</b>	
	2020
Reviewed Papers for Journals	
<b>Impact Factor: 2.633</b>	

Intellectual Property

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Copyrights

Patents

Industrial Designs

Casing of Transmission Control Module	2024
Status: Filed	
Precision Forming Robotic Soil Drilling System	2024
Status: Filed	
High maneuverability agricultural robot with individual wheel steering	2024
Status: Filed	
Flexible Mobile Automated Guided Vehicle Platform	2021
Status: Filed	

Trademarks