

# Sajid Ullah Butt

Assistant Professor

College of Electrical & Mechanical Engineering

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## About

Dr. Sajid Ullah Butt is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Sajid Ullah Butt has a PhD in Mechanical. Dr. Sajid Ullah Butt has published 31 research articles & conference papers having a citation count of 104, carried out 1 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Mechanical</b> Ecole Nationale Supérieure d'Arts et Métiers de Paris , France	2008 - 2012
<b>MS in Design, Industrialisation And Innovation</b> Ecole Nationale Supérieure d'Arts et Métiers de Paris , France	2007 - 2008
<b>B.Sc (Hon) in Mechanical Engineering</b> UET Peshawar , Pakistan	2002 - 2006

## Experience

<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2022- Present
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2012 - 2022
<b>Asst Engineer</b> PNRA , Islamabad	2006 - 2007
<b>Lecturer</b> UET, Peshawar , Peshawar	2006 - 2006

## Awards

<b>MS to PhD scholarship</b>	2007
<b>UET Peshawar position hol</b>	2005

## Professional Memberships

PEC

## Research Projects

<b>National Projects</b>	
<b>Design and development of a prototype for a3-DoF autonomous underwater Vehicle</b> Funding Agency: NESCOM Amount: PKR 150,000.00 Status: Completed	2017

### International Projects

## Research Articles

<b>Hybrid Additive Manufacturing: A Review from a Process Planning Perspective</b> Rabiah Tabassum Uzair Khaleeq Uz Zaman Aamer Ahmed Baqai, Abdur Rehman Mazhar Sajid Ullah Butt Journal of Advanced Manufacturing Systems, Volume 23, No. 01, Pages 227-262	2024
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<b>Impact Factor:</b> 0.900   <b>Quartile:</b> 4   <b>Citations:</b> 1 <b>DOI:</b> 10.1142/S0219686724500100	
<b>Impact of multiple infill strategy on the structural strength of single build FDM printed parts</b> <i>Ramisha Sajjad Sajid Ullah Butt Hasan Aftab Saeed Muhammad Tuoqeer Anwar Tahir Rasheed</i> <i>Journal of Manufacturing Processes</i> , Volume 89, Pages 105-110 <b>Impact Factor:</b> 6.2   <b>Quartile:</b> 2   <b>Citations:</b> 23 <b>DOI:</b> <a href="https://doi.org/10.1016/j.jmapro.2023.01.065">https://doi.org/10.1016/j.jmapro.2023.01.065</a>	2023
<b>Role of Crystallographic Orientation of <math>\beta</math>-Sn Grain on Electromigration Failures in Lead-Free Solder Joint: An Overview</b> <i>Muhammad Nasir Sajid Ullah Butt Muhammad Adil Mansoor Niaz Bahadur Khan Shahid Bashir Yew Hoong Wong Turki Alamro Sayed Mohamed Eldin Mohammed Jameel</i> <i>Coatings</i> , Volume 12(11), Article Number 1752 <b>Impact Factor:</b> 3.236   <b>Quartile:</b> 2   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.3390/coatings12111752">https://doi.org/10.3390/coatings12111752</a>	2022
<b>Optimization of Wire Electric Discharge Machining (WEDM) Process Parameters for AISI 1045 Medium Carbon Steel Using Taguchi Design of Experiments</b> <i>Uzair Khaleeq uz Zaman Usman Ahmed Khan Shahid Aziz Aamer Ahmed Baqai Sajid Ullah Butt Danish Hussain Ali Siadat Dong Won Jung</i> <i>Materials</i> , Volume 15(21), Article Number 7846 <b>Impact Factor:</b> 3.748   <b>Quartile:</b> 1   <b>Citations:</b> 13 <b>DOI:</b> 10.3390/ma15217846	2022
<b>Investigation of the Impact Resistance Behavior of Customized Hair Clipper Comb Fabricated by Fused Deposition Modeling</b> <i>Uzair Ali Hasan Aftab Saeed Bilal Anjum Sajid Ullah Butt Muhammad Rehan Khan</i> <i>Sustainability</i> , Volume 14(13), Article Number 8071 <b>Impact Factor:</b> 3.889   <b>Quartile:</b> 2   <b>Citations:</b> 1 <b>DOI:</b> <a href="https://doi.org/10.3390/su14138071">https://doi.org/10.3390/su14138071</a>	2022
<b>Spark Plasma Sintering of SiAlON Ceramics Synthesized via Various Cations Charge Stabilizers and Their Effect on Thermal and Mechanical Characteristics</b> <i>Muhammad Zulqarnain Falak Bilal Anjum Ahmed Hasan Aftab Saeed Sajid Ullah Butt Abbas Saeed Hakeem Usman Ali Akbar</i> <i>Crystals</i> , Volume 11(11), Pages 1378 <b>Impact Factor:</b> 2.589   <b>Quartile:</b> 2   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.3390/cryst11111378">https://doi.org/10.3390/cryst11111378</a>	2021
<b>Framework for Mitigation of Welding Induced Distortion through Response Surface Method and Reinforcement Learning</b> <i>Rehan Waheed Hasan Aftab Saeed Sajid Ullah Butt Bilal Anjum</i> <i>Coatings</i> , Volume 11(10), Article Number 1227 <b>Impact Factor:</b> 2.881   <b>Quartile:</b> 2   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.3390/coatings11101227">doi.org/10.3390/coatings11101227</a>	2021
<b>Locator Placement Optimization for Minimum Part Positioning Error During Machining Operation Using Genetic Algorithm</b> <i>Sajid Ullah Butt Mamoon Arshad Aamer Ahmed Baqai Hasan Aftab Saeed Naveed Akmal Din Rehan Ahmed Khan</i> <i>International Journal of Precision Engineering and Manufacturing</i> , Volume 22(5), Pages 813-829 <b>Impact Factor:</b> 2.041   <b>Quartile:</b> 3   <b>Citations:</b> 9 <b>DOI:</b> <a href="https://doi.org/10.1007/s12541-021-00500-6">https://doi.org/10.1007/s12541-021-00500-6</a>	2021
<b>Material Handling Cost Consideration in Process Plan Selection for Reconfigurable Manufacturing System</b> <i>Syeda Naela Fatima Hasan Aftab Saeed Sajid Ullah Butt Aamer Baqai</i> <i>Journal of Engineering and Applied Sciences</i> , Volume 38, Issue 1, Pages 1-14 <b>Impact Factor:</b> 0 <b>DOI:</b> 10.25211/jeas.v38i1.2302	2019
<b>Investigating the Impacts of Heterogeneous Infills on Structural Strength of 3D Printed Parts</b> <i>Ramisha Sajjad Sajid Ullah Butt Khalid Mahmood Hasan Aftab Saeed</i> <i>Key Engineering Materials</i> , Volume 799, Pages 276-281 <b>Impact Factor:</b> 0   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.4028/www.scientific.net/KEM.799.276">https://doi.org/10.4028/www.scientific.net/KEM.799.276</a>	2019

<b>Incorporation of part complexity into system scalability for flexible/reconfigurable systems</b> <i>Syed Maaz Hasan Aamer Ahmed Baqai Sajid Ullah Butt Muhammad Farhan Ausaf Uzair Khaleeq uz Zaman</i> <i>The International Journal of Advanced Manufacturing Technology</i> , Volume:99, Issue:9-12, Page:2959-2979 <b>Impact Factor:</b> 2.496   <b>Quartile:</b> 2   <b>Citations:</b> 4 <b>DOI:</b> 10.1007/s00170-018-2654-x	2018
<b>Product family formation based on complexity for assembly systems</b> <i>Syed Maaz Hasan Uzair Khaleeq uz Zaman Aamer Ahmed Baqai Sajid Ullah Butt</i> <i>The International Journal of Advanced Manufacturing Technology</i> , NULL <b>Impact Factor:</b> 2.496   <b>Quartile:</b> 2   <b>Citations:</b> 13 <b>DOI:</b> DOI:https://doi.org/10.1007/s00170-017-1174-4	2018
<b>Framework for Part Families Associated with Setup Sequence Based Similarity in Reconfigurable Manufacturing System / Cellular Manufacturing System</b> <i>Muhammad Ali Aamer Ahmed Baqai Sajid Ullah Butt Syed Maaz Hasan</i> <i>International Journal of Materials, Mechanics and Manufacturing</i> , Volume 6 Number 1, Pages 63-68 <b>Impact Factor:</b> N/A <b>DOI:</b> 10.18178/ijmmm.2018.6.1.348	2018
<b>An analytical approach for positioning error and mode shape analysis of n – legged parallel manipulator</b> <i>Muhammad Sohail Sajid Ullah Butt Aamer Ahmed Baqai</i> <i>International Journal of Computer Integrated Manufacturing</i> , NULL <b>Impact Factor:</b> 1.995   <b>Quartile:</b> 2   <b>Citations:</b> 5 <b>DOI:</b> http://dx.doi.org/10.1080/0951192X.2017.1379098	2017
<b>Simplified stiffness model for spherical rough contacts</b> <i>Jean-François Antoine Patrick Martin Sajid Ullah Butt</i> <i>Tribology - Materials, Surfaces and Interfaces</i> , Volume 9, Issue 2, Pages 63-70, June 2015 <b>Impact Factor:</b> 0   <b>Citations:</b> 5 <b>DOI:</b> https://doi.org/10.1179/1751584X15Y.0000000001	2015
<b>An Analytical Model for Repositioning of 6 D.O.F Fixturing System</b> <i>Jean-François Antoine Patrick Martin Sajid Ullah Butt</i> <i>Mechanics &amp; Industry</i> , Volume: 13 Issue: 3 Pages: 205-217 <b>Impact Factor:</b> 0.127   <b>Quartile:</b> 4   <b>Citations:</b> 8 <b>DOI:</b> https://doi.org/10.1051/meca/2012016	2012

## Conference Proceedings

<b>The Effect of Residual Stress in Welding Stainless Steel Bent Sections</b> <i>Rehan Waheed Hasan Aftab Saeed Bilal Anjum Ahmed Sajid Ullah Butt Zahid Faraz</i> <i>19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IBCAST54850.2022.9990077	2022
<b>Optimization of Al-Cu Friction Stir Welding Parameters Through RSM and BOA</b> <i>Rehan Waheed Hasan Aftab Saeed Bilal Anjum Ahmed Sajid Ullah Butt Zahid Faraz</i> <i>19th International Bhurban Conference on Applied Sciences and Technology, IBCAST 2022</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IBCAST54850.2022.9990506	2022
<b>The Effect of Physical Properties on Welding Induced Distortion in Dissimilar Steel Lap Joint</b> <i>Rehan Waheed Hasan Aftab Saeed sajid ullah butt Zahid Faraz</i> <i>2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IBCAST51254.2021.9393165	2021
<b>Process Optimization of Bending SS 304L Sheets using Multi-Objective Genetic Algorithm and FEA</b> <i>Rehan Waheed Hasan Aftab Saeed sajid ullah butt Zahid Faraz</i> <i>2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IBCAST51254.2021.9393207	2021

- An analytical model for pressure loss coefficients in tee junction of a solar collector based upon discharge ratio and Reynolds number** 2019  
*Shahzad Yousaf Imran Shafi Sajid Ullah Butt Muhammad Farooq*  
*4th Thermal and Fluids Engineering Conference*, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.1615/TFEC2019.ens.028575
- AN ANALYTICAL MODEL FOR PRESSURE LOSS COEFFICIENTS EVALUATION IN TEE JUNCTION OF A SOLAR COLLECTOR BASED UPON DISCHARGE RATIO AND REYNOLDS NUMBER** 2019  
*Shahzad Yousaf Sajid U. Butt Muhammad Farooq Lt Col Dr Imran Shafi*  
*4TH Thermal and Fluids Engineering Conference*, res.country(233,)  
**Citations:** N/A  
**DOI:**  
[https://www.researchgate.net/profile/Imran\\_Shafi/publication/334133211\\_An\\_analytical\\_model\\_for\\_pressure\\_loss\\_coefficients\\_in\\_tee\\_junction\\_of\\_a\\_solar\\_collector\\_based\\_upon\\_discharge\\_ratio\\_and\\_Reynolds\\_number/links/5d20ece2458515c11c18ce91/An-analytical-model-for-pressure-loss-coefficients-in-tee-junction-of-a-solar-collector-based-upon-discharge-ratio-and-Reynolds-number](https://www.researchgate.net/profile/Imran_Shafi/publication/334133211_An_analytical_model_for_pressure_loss_coefficients_in_tee_junction_of_a_solar_collector_based_upon_discharge_ratio_and_Reynolds_number/links/5d20ece2458515c11c18ce91/An-analytical-model-for-pressure-loss-coefficients-in-tee-junction-of-a-solar-collector-based-upon-discharge-ratio-and-Reynolds-number)
- A petri-net model for scalable systems with variable stages based on changing product demands** 2018  
*Syed Maaz Hasan Sajid Ullah Butt Aamer Ahmed Baqai*  
*28th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2018)*, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.1016/j.promfg.2018.10.036
- Accuracy Analysis of 3-RSS Delta Parallel Manipulator** 2018  
*Mansoor Ghazi Sajid Ullah Butt Aamer Ahmed Baqai Qasim Nazir*  
*28th International Conference on Flexible Automation and Intelligent Manufacturing*, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.1016/j.promfg.2018.10.033
- A new approach to predict the flexibility and precision of manufacturing systems using geometric constraints and small displacement torsors** 2018  
*Hana Amin Khan Sajid Ullah Butt Aamer Ahmed Baqai Hasan Aftab Saeed*  
*28th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2018)*, res.country(233,)  
**Citations:** N/A  
**DOI:** 10.1016/j.promfg.2018.10.049
- Optimization of Locators Placement for Minimum Workpiece Positioning Error** 2017  
*Mamoon Arshad Sajid Ullah Butt Aamer Ahmed Baqai*  
*International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI 2017)*, res.country(94,)  
**Citations:** N/A  
**DOI:** 10.1145/3059336.3059357
- Positioning error analysis of Parallel Manipulator using Lagrangian Formalization** 2016  
*Muhammad Sohail Sajid Ullah Butt Aamer Ahmad Baqai*  
*26th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2016)*, res.country(121,)  
**Citations:** N/A  
**DOI:** [https://www.researchgate.net/publication/305703310\\_Positioning\\_error\\_analysis\\_of\\_Parallel\\_Manipulator\\_using\\_Lagrangian\\_Formalization](https://www.researchgate.net/publication/305703310_Positioning_error_analysis_of_Parallel_Manipulator_using_Lagrangian_Formalization)
- Affirmation of Enhanced Product Design Using GD&T in Tolerance Analysis** 2016  
*Hana Amin Khan Sajid Ullah Butt*  
*26th International Conference on Flexible Automation and Intelligent Manufacturing, Seoul, Republic of KOREA*, res.country(121,)  
**Citations:** N/A  
**DOI:** [https://www.researchgate.net/publication/305703368\\_Affirmation\\_of\\_Enhanced\\_Product\\_Design\\_Using\\_GDT\\_in\\_Tolerance\\_Analysis](https://www.researchgate.net/publication/305703368_Affirmation_of_Enhanced_Product_Design_Using_GDT_in_Tolerance_Analysis)
- Multiobjective optimization of a Tricept parallel manipulator using Evolutionary Algorithms** 2015  
*Syed Saad Farooq Aamer Ahmed Baqai Sajid ullah Butt Wasim Akram Tarar Amjad Baig*  
*25th International Conference of Flexible Automation and Intelligent Manufacturing*, res.country(231,)  
**Citations:** N/A  
**DOI:** [https://www.researchgate.net/publication/305703482\\_Multi\\_objective\\_Optimization\\_of\\_a\\_Tricept\\_Parallel\\_Manipulator\\_using\\_Evolutionary\\_Algorithm](https://www.researchgate.net/publication/305703482_Multi_objective_Optimization_of_a_Tricept_Parallel_Manipulator_using_Evolutionary_Algorithm)
- Comparative analysis between small displacement torsor and model of indeterminate applied on generated solution of Reconfigurable Manufacturing System** 2014  
*Arsalan Shafiq Aamer Baqai SAJID ULLAH BUTT*  
*24th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM)*, res.country(233,)  
**Citations:** N/A

DOI: 10.14809/faim.2014.0833

A Kinematic Approach for 6-DOF Part Positioning

2013

Sajid Ullah Butt Jean-Francois Antoine Patrick Martin  
23rd CIRP Design Conference , res.country(57,)

Citations: N/A

DOI: 10.1007/978-3-642-30817-8\_15

Editorial Activities

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Reviewed Papers for Journals

2021

Impact Factor: 1.606

Reviewed Papers for Journals

2020

Reviewed Papers for Journals

2019

Impact Factor: 0

Reviewed Papers for Journals

2019

Impact Factor: 1.161

Reviewed Papers for Journals

2019

Impact Factor: 1.254