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<https://scholar.google.com.pk/citations?user=Ua4HhtwAAAAJ&hl=en&oi=sra>



Education

- PhD (2017): Automation & Control Engineering, Koç University, Istanbul, Turkey.
Thesis title: Design, Implementation and Control of Magnetic Bearings in Rotary Blood Pumps.
- MS (2012): Control Engineering, University of Engineering and Technology (UET) Taxila, Pakistan.
Thesis title: Position Control of Electrohydraulic Servo System using Kalman Filter based Fuzzy PID Controller.

Experience

Professional Experience:

- March 2021 till date working as Assistant professor in the Department of Mechanical & Manufacturing Engineering, PAF-IAST, Haripur, Pakistan.
- September 2017 till March 2021, worked as Assistant Professor in the Faculty of Engineering & Applied Sciences, Riphah International University, Islamabad, Pakistan.
- September 2013 to August 2017, worked as Research Assistant and Teaching Assistant at Koç University, Istanbul, Turkey.
- November 2009 till August 2013, worked as Lecturer in the Faculty of Engineering & Applied Sciences, Riphah International University, Islamabad, Pakistan.

Research Supervision Experience:

- Successfully supervised 6 MS research scholars and 25 BS research scholars at Riphah International University, Islamabad.

Memberships & Awards

- Koç University Turkey 2016 Inventor Shield for the International Patent.
- Higher Education Commission (HEC) Pakistan Ph.D Scholarship (2013-2017).
- Member of Pakistan Engineering Counsel (PEC), Pakistan.
- Member of the IEEE Industrial Electronics Society.

Selected Journal Publications

- **Design and Adaptive Sliding Mode Control of Hybrid Magnetic Bearings** in “*IEEE Transactions on Industrial Electronics*”. (Impact Factor: 8.236).
- **Design and Analysis of a Novel Bearingless Motor for Miniature Axial Flow Blood Pump** in “*IEEE Transactions on Industrial Electronics*”. (Impact Factor: 8.236).
- **Development of a Novel Shrouded Impeller Pediatric Blood Pump** in “*Journal of Artificial Organs*”. (Impact Factor: 1.7).
- **Cloud Based IoT Solution for Fault Detection and Localization in Power Distribution Systems** in “*Energies*”. (Impact Factor: 3.004).
- **Multi-Stressed Nano and Micro-Silica/Silicone Rubber Composites with Improved Dielectric and High-Voltage Insulation Properties** in “*Polymers*”. (Impact Factor: 4.329).
- **Hierarchical Control of Microgrid Using IoT and Machine Learning Based Islanding Detection** in “*IEEE Access*”. (Impact Factor: 3.37).