HASSAN ELAHI

A Highly-Motivated Researcher with expertise in Smart Structures, Vibrations, MEMS, Piezoelectric Energy Harvesting and Aeroelasticity. He is passionately seeking to burnish his skills further, nurtured a strong passion to become a scientist and pursue research. In the pursuit of knowledge, he has always adopted a rigorous approach to attain an in-depth understanding of the subject at hand.

EDUCATION:

1. **PhD Engineering** (2016-Feb 2020)

Topic: Design and Evaluation of an Aeroelastic Piezoelectric Energy Harvester.

Supervisor: Prof. Paolo Gaudenzi.

Award: On Scholarship. **Classification:** Very Good.

Department: Department of Mechanical and Aerospace Engineering.

University: Sapienza University of Rome, Rome, Italy.

2. **MS Engineering** (2012-14)

Topic: Experimental Determination of Electrical Properties & Mechanical Quality

Factor of Piezoelectric Material under Thermal Shocking Conditions.

Supervisor: Prof. Riffat Asim Pasha.

Awards:

Award of Honor.

• On Scholarship.

Department: Department of Mechanical Engineering.

University: University of Engineering & Technology, Taxila, Pakistan.

4. BS Engineering (2008-12)

University: University of Engineering & Technology, Taxila, Pakistan.

PROFESSIONAL EXPERTISE:

Experience:

- 1. Working as a *Lecturer* in Department of Mechanical Engineering at *Institute of Space Technology, Islamabad, Pakistan*. My responsibilities were:
 - Courses that I am offering to undergraduate students are: Control System, Machine Design-I, Machine Design-II, CAD-I, CAD-II and Engineering Mechanics-II.
 - Advisor of ASME and IMechE IST Chapter.
 - Departmental Quality Assurance Coordinator (DQAC).

- 2. Worked as <u>Teacher Assistant</u> in Mechanical Engineering Department at <u>University of Engineering & Technology Taxila</u>, <u>Pakistan</u>. (28-08-2012 to 04-09-2013). My responsibilities were:
 - Delivered lecture of Manufacturing Processes-II (4 Credit Hours Subject).
 - Conducted lab of Machine Design.
 - Delivered 6 weeks lectures on "MATLAB" at IMechE Workshop UET Taxila.
 - Delivered 6 weeks lectures on "Abaqus" at ASME workshop UET Taxila.

Internships:

- Kamra Avionics & Radar Factory (KARF), Kamra, Pakistan.
- Descon Integrated Project Limited, Lahore, Pakistan.

Google Scholar Profile:

Citations	h-index	i10-index
328	12	15

REVIEWER:

- IEEE Transactions on Aerospace and Electronic Systems
- Applied Sciences (MDPI)
- Sensors (MDPI)
- Journal of Mechanical Science and Technology (Springer)
- International Journal of Satellite Communications and Networking (Wiley)
- Journal of Low Frequency Noise, Vibration and Active Control (SAGE)
- Materials (MDPI)
- International Journal of Control (Wiley)
- Shock and Vibration (Hindawi)
- Latin American Journal of Solids and Structures (lajss)
- Transactions on Electrical and Electronic Materials (TEEM)
- Asian Research Journal of Mathematics (SCIENCEDOMAIN international)
- Advances in Applied Ceramics; Structural, Functional and Bioceramics (Taylor & Francis)
- International Journal of Industrial Engineering: Theory Applications and Practice (IJIETAP)
- University of Engineering and Technology Taxila. Technical Journal
- International Conference on Control Mechatronics and Automation, Spain
- International Conference on Mechanics and Mechatronics Research, Xi'an, China
- International Conference on Robotics Systems and Vehicle Technology, Wuhan, China
- 7th International Conference on Metallurgy Technology and Materials, Xiamen, China

TECHNICAL COMMITTEE MEMBER OF CONFERENCES:

- International Conference on Control Mechatronics and Automation, Tokyo, Japan (2016-19).
- International Conference on Mechanics and Mechatronics Research, Barcelona, Spain (2017).
- International Conference on Robotics Systems and Vehicle Technology, London, UK (2019).

COMPUTER SKILLS:

1. 3 Months Course CAD (in Electrical and Mechanical Drawing Design)

Designer Tools: Abaqus, Solid Works
 Research Software: EndNote, IBM SPSS
 Languages: Matlab, C++, Assembly

5. Software: LATEX, Mathematica, Proteus, Kiel

PhotoScape, Picasa, Fotor

6. MS Office: Word, Power Point & Excel

MEMBERSHIPS:

Pakistan Engineering Council (PEC).
 American Society of Mechanical Engineers (ASME).
 Institution of Mechanical Engineers UK (IMechE).
 American Society of Testing and Materials (ASTM).
 American Society of Heating, Refrigerating and Air-Conditioning Engineers

LANGUAGES:

Languages	Reading	Writing	Listening	Speaking
English	★★★★☆	★★★★☆	★★★★☆	★★★★☆
Urdu	****	****	****	****
Chinese	* * * * * *	* * * * * *	***	***
Arabic	***	***	$\star\star$	$\star\star \star \circ \circ \circ$
Punjabi	***	***	****	★★★★☆
Italian	★★★☆☆	***	$\star\star$	***

REFERENCES:

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Engineering,
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Professor.
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Engineering,
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