

## Engr. Kamran Kazi

### Residence

House No. 81, Kazi House, M. B. Shoro Society Near Jijal Maa Institute, Jamshoro Road  
Qasimabad Hyderabad Sindh Pakistan.

### Office

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### Personal Profile

|                       |             |                      |                               |
|-----------------------|-------------|----------------------|-------------------------------|
| <b>Age</b>            | : 50 years  | <b>Date of Birth</b> | : 22 <sup>ND</sup> June, 1973 |
| <b>Nationality</b>    | : Pakistani | <b>Gender</b>        | : Male                        |
| <b>Marital Status</b> | : Married   |                      |                               |

### Education

| Degree/Level                          | University/Board    | Year |
|---------------------------------------|---------------------|------|
| M.E (Communication System & Networks) | Mehran UET Jamshoro | 2005 |
| B. E (Electronics)                    | Mehran UET Jamshoro | 1998 |
| Higher Secondary Certification (HSC)  | B.I.S.E Hyderabad   | 1991 |
| Secondary School Certification (SSC)  | B.I.S.E Hyderabad   | 1989 |

### Professional Memberships

**Pakistan Engineering Council (P.E.C)**

**Membership No. Electro/48336**

## Jobs and Experiences

### Present Job:

- Working as a Assistant Professor in Mehran University of Engineering & Technology Jamshoro Pakistan. Job responsibilities include teaching and research.

**Duration:** From 07-02-2011 to date

### Previous Jobs:

- Worked as a Lecturer in Mehran University of Engineering & Technology Jamshoro Pakistan. Job responsibilities include teaching and research.

**Duration:** From **15-08-2009** to 06-02-2011

- Worked as a Lab-lecturer in Mehran University of Engineering & Technology Jamshoro Pakistan. Job responsibilities include teaching and research.

**Duration:** From **11-10-2003** to 14-08-2009

- Worked as Demonstrator BPS-17 in Mehran University of Engineering & Technology Jamshoro Pakistan Job responsibilities include Teaching and research.

**Duration:** From 24-04-2003 to 10-10-2003

## Research Journal Publications

1. I. HUSSAIN, I. A. HALEPOTO, W. KUMAR, **K. KAZI**, "Anti-Slip Traction Control of Railway Vehicle Based on Estimated Wheel-Rail Contact Condition" *Sindh Univ. Res. Jour. (Sci. Ser.) Vol. 45 (2) 373-378 (2013)*.
2. Shaikh, Khurram, I. H. Kalwar, B. S. Chowdhry, **K. Kazi**, and B. A. Arain. " Modeling and simulation of predictive maintenance scheme for high speed railway vehicles." *Indian Journal of Science and Technology* 9, no. 1 (2016): 1-6.
3. Ayaz Ahmed Soomro, Imtiaz Hussain Kalwar, **Kamran Kazi**, "A Hybrid Monitoring Technique for Diagnosis of Mechanical Faults in Induction Motors" *Indian Journal of Science and Technology, Vol 9(47), DOI: 10.17485/ijst/2016/v9i47/108657, December 2016*.

4. Mansoor Ahmed Soomro<sup>\*</sup>, Anwar Ali Sahito, Irfan Ahmed Halepoto and **Kamran Kazi**, "Single Tuned Harmonic Shunt Passive Filter Design for Suppressing Dominant Odd Order Harmonics in order to Improve Energy Efficiency" *Indian Journal of Science and Technology*, Vol 9(47), DOI: 10.17485/ijst/2016/v9i47/108649, December 2016.
5. Khan, Irfanullah, Imtiaz Hussain, M. Zaigham Abbas Shah, **Kamran Kazi**, and Aamir Ali Patoli. "Design and simulation of Anti-lock braking system based on Electromagnetic damping phenomena." In *2017 First International Conference on Latest trends in Electrical Engineering and Computing Technologies (INTELLECT)*, pp. 1-8. IEEE, 2017.
6. Qazi, Abdullah, Irfan Ahmed Halepoto, and **Kamran Kazi**. "Optimal Balancing and Control of a Dynamic Load Demand in a Grid Connected Hybrid System using Feed-in Tariff Approach." *3c Tecnología: glosas de innovación aplicadas a la pyme* 8.1 (2019): 350-365.
7. Bhatti, Farkhunda, **Kamran Kazi**, and Farhan Zafar. "Dynamic Modeling and Control of Antilock Braking System for Four Wheel Vehicles." *Journal of Applied Engineering & Technology (JAET)* 6, no. 2 (2022): 9-19.
8. K. Kazi, A. N. Kalhor, F. Memon, A. R. Memon, and M. Iqbal, "Beyond Handcrafted Features: A Deep Learning Framework for Optical Flow and SLAM," *J. Imaging*, vol. 11, no. 5, article 155, May 2025, doi: 10.3390/jimaging11050155.
9. K. Kazi, A. N. Kalhor, F. Memon, T. R. Memon, and A. R. Memon, "Robust Outdoor Trajectory Mapping Using CNN Features and Loop Closure Optimization," *Mehran University Research Journal of Engineering and Technology*, vol. 44, no. 3, pp. 174-186, Jul. 2025, doi: 10.22581/muet1982.0351.

## Conference Publications

1. Hussain, A.A. Patoli and **K.Kazi** "Fuzzy Logic Based Effective Anti-Lock Breaking System Adaptive to Road Conditions" *First International Conference on Modern Communication & Computing Technologies (MCCT'14)*.

## Thesis Supervised

### M.E Candidates

| S. No | Thesis Title | Supervisor/<br>Co-supervisor | Student's Name/ Roll. No | Status |
|-------|--------------|------------------------------|--------------------------|--------|
|-------|--------------|------------------------------|--------------------------|--------|

|   |                                                                                                                               |                                                     |                                             |                   |
|---|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------|
| 1 | On-line Condition Monitoring and Fault Localization of Induction Motor using Motor Current Signature Analysis and Fuzzy Logic | Dr. Imtiaz Hussain Kalwar/ <b>Engr. Kamran Kazi</b> | Engr. Ayaz Ahmed Soomro<br>B10 ME ESE 64    | Graduated in 2016 |
| 2 | Design of Controller using Hardware in the Loop (HIL) Simulation for Unmanned Small Helicopter                                | Dr. Arbab Nighat/ <b>Engr. Kamran Kazi</b>          | Engr. Muhammad Riaz Khalid<br>B10 ME ESE 13 | Graduated in 2016 |
| 3 | Frequency- Domain System Identification of UAV Using Flight Data                                                              | Dr. Arbab Nighat/ <b>Engr. Kamran Kazi</b>          | Engr. Bhajan Kumar<br>B13 ME ESE 08         | Graduated in 2016 |
| 4 | Estimation of Creep Force Coefficient using Extended Kalman Filter                                                            | Dr. Imtiaz Hussain Kalwar/ <b>Engr. Kamran Kazi</b> | Engr. Shahbaz Pathan<br>B16 ME ESE          | Graduated in 2019 |
| 5 | Optimal Balancing and Control of a Dynamic Load Demand in a Grid Connected Hybrid System using Fed-In tariff Approach         | Dr. Irfan Ahmed Halepoto/ <b>Engr. Kamran Kazi</b>  | Engr. Abdullah Kazi<br>B16 ME AC 04         | Graduated in 2020 |
| 6 | Dynamic Modeling and Control of Antilock Braking System for Four Wheel Vehicles                                               | <b>Engr. Kamran Kazi</b>                            | Engr. Farkhunda Bhatti<br>B19 ME ESE 17     | Graduated in 2023 |

### **B.E Thesis**

| <b>Degree</b> | <b>Title of Thesis</b>                                               | <b>Batch</b> |
|---------------|----------------------------------------------------------------------|--------------|
| B.E           | Study & Analysis of Bluetooth Technology                             | 2006         |
| B.E           | Low Cost Microcontroller-based Application for Home Safety & Control | 2007         |
| B.E           | Architecture and Performance Analysis of WLL                         | 2007         |
| B.E           | Design and Analysis of Ultra Wideband (UWB) Transmitter.             | 2009         |
| B.E           | Fixed Wireless Broadband Communication for Rural Areas               | 2009         |

|     |                                                                               |           |
|-----|-------------------------------------------------------------------------------|-----------|
| B.E | Design and Analysis of Ultra Wideband (UWB) Transmitter.                      | 2009      |
| B.E | Fire Fighting Robot                                                           | 2014      |
| B.E | RFID Based Librarian Robot                                                    | 2014      |
| B.E | Pet Bot                                                                       | 2014      |
| B.E | Electronic Attendance System                                                  | 2014      |
| B.E | Automatic Robotic Arm                                                         | 2016      |
| B.E | Personal Computer Based Marine Engine Monitoring & Interactive Control System | 2016      |
| B.E | Terrian Classification using Convolution Neural Networks                      | Fall 2016 |
| B.E | Design and Implementation of IoT Based Mobile Robotic Arm                     | Fall 2016 |
| B.E | Virtual Reality Based Wireless Telepresence Platform                          | 2017      |
| B.E | Hand Gesture Control Robotic Arm                                              | 2017      |
| B.E | Assistive Device to Aid Visually Impaired Persons                             | 2018      |
| B.E | Intelligent Human Machine Interface using Hand Gestures Recognition.          | 2019      |
| B.E | Artificial Brain Motor Movement and Visual Learning                           | 2019      |
| B.E | Interactive Robot Using Artificial Intelligence                               | 2020      |