

# **MUHAMMAD AZIZ UL HAQ**

**CONTACT INFORMATION**                      **Permanent Address:** C/o Zamurrad Hussain Brigade road Bhimber AK  
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**EDUCATION**                              **2014–2016** Masters in **Electrical Engineering (Specialization in Signal Processing and Machine Learning)**, E&ME (National University of science and technology), Rawalpindi, Pakistan  
**CGPA: 3.2/4.00**  
**2010 – 2014** Bachelor in **Electronics Engineering**, Capital University of science and technology (previously MAJU), Islamabad, Pakistan  
**CGPA: 3.32/4.00**

**RESEARCH PUBLICATIONS**

- Journal Publication on “Indoor Localization using Improved Weighted Naïve Bayes” at International Journal of Computer Science and Information Security, IJCSIS ISSN 1947-5500, impact factor 0.553.
- Publication on “Indoor localization using improved multinomial Naïve Bayes” at Springer sponsored conference 3rd Afro-European Conference for Industrial Advancement (AECIA).
- Publication on “Smart Solar AC Generator” at IEEE conference Power Generation Systems and Renewable Energy Technologies (PGSRET).]
- “Comparative study of classification techniques for indoor localization of mobile devices” in Proceedings of the 28th International Telecommunication Networks and Applications Conference, 2018

**RESEARCH INTERESTS**

- Control Systems
- Stochastic Systems
- Machine learning
- Parameter Estimation (in Diesel engine)
- Renewable Energy Resources

**WORK EXPERIENCE**

- Working as a Lecturer in COMSATS University Islamabad, from April 2018.
- Worked as a Research Associate in ETL BIOMISA lab, NUST College of EME from July 2014 to December 2017.

**BACHELOR’S FINAL YEAR PROJECT**                      **Smart solar AC generator without inverter and solar tracking system**

**MASTER'S  
THESIS**

**Indoor localization using Machine learning**

**PROJECTS AND  
CERTIFICATES**

- Robotic arm using 8051 microcontrollers.
- State Feedback Controller for linear and non-linearized system.
- Output Feedback Controller for linear and non-linearized system.
- Integral control on State Feedback Controller for linear and non-linearized system.
- Servomechanism on State Feedback Controller for a linear system.
- For a real-time system designing of Integral Control for Full order and Minimum Order Observer.
- LQR and LQG Tracking and Disturbance rejection on a real-time system.
- Analysis of 3d Gyroscope using Ansys and MATLAB
- Parameter analysis on Diesel engine.
- Chi-square test on random data.
- Linear forward and linear backward prediction using LMS, Weiner and NLMS filters.
- Tracking of Noisy sinusoid using SSRLS and KALMAN Filters
- Attended a workshop for one credit point on Software defined Radio Prototyping held on June 3, 2014 at Mohammad Ali Jinnah University, Islamabad by Continuing Professional Development Program, CPD Program.
- Attended a short course on “Energy Tool and Techniques” held on September 26, 2012 at Mohammad Ali Jinnah University, Islamabad by ENERCON.

**AWARDS &  
ACHIEVEMENTS**

- Vice President at Engineer’s Voice Muhammad Ali Jinnah University, Islamabad.
- Won Dean’s Honor Roll in 2011 in Muhammad Ali Jinnah University, Islamabad.
- Won Dean’s Honor Roll in 2012 in Muhammad Ali Jinnah University, Islamabad.

**MAJOR SUBJECTS**

- Control Systems
- Digital Signal Processing
- Power Generation
- Adaptive filters
- Detection and Estimation
- Stochastic Systems

**TECHNICAL SKILLS**

- Python
- MATLAB
- LAB VIEW
- Arduino
- Microsoft Visual studio C++
- ANSYS
- Proteus circuit designing

- Packet tracer
- AutoCAD
- MS office

## REFERENCES

**Dr. Aamer Iqbal Bhatti,**

Professor, Capital University of Science and Technology, Islamabad

Email: [aib@cust.edu.pk](mailto:aib@cust.edu.pk)

**Dr. Muhammad Younus Javed (Vice Chancellor)**

Professor, Mirpur University of Science and  
Technology, Mirpur AJK , Pakistan.

Email: [myjaved@hitecuni.edu.pk](mailto:myjaved@hitecuni.edu.pk)

**Dr Muhammad Usman Akram**

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University of Science and Technology, Rawalpindi

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