

CURRICULUM VITAE**UZMA AFSHEEN**

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CAREER OBJECTIVE:

To pursue a career in the academics and research with a prestigious University.

ACADEMIC QUALIFICATION:

<u>CLASS</u>	<u>INSTITUTION</u>	<u>YEAR OF PASSING</u>	<u>GRADE/ POSITION</u>	<u>PERCENTAGE /CGPA</u>
PhD. Electrical and Electronic Engg	University of Canterbury, New Zealand	2020		CGPA 4/4
MEngg. Electrical (Major:Telecomm unications)	NED University of Engg.& Tech. Khi.	2007	Distinction	CGPA 3.94/4
Final Year Electrical Engg.	NED University of Engg.& Tech. Khi.	2002	A-1 Second Position Distinction	87.3%
Third Year Electrical Engg.	NED University of Engg.& Tech. Khi.	2001	A-1	81.26%
Second Year Electrical Engg.	NED University of Engg.& Tech. Khi.	2000	A-1 Third Position	84.5%
First Year Electrical Engg.	NED University of Engg.& Tech. Khi.	1999	A-1 First Position	82.5%
Intermediate Pre-Engg. (HSC)	ST.JOSEPH'S College, Khi.	1997	A-1	84.55%
Matriculation (SSC)	ST. PATRICK'S Girls' High School, Khi.	1995	A-1 Eight Position in BSEK	90.12%

EXPERIENCE & PROJECTS:

- **2011 to date**

Serving as an **Assistant Professor** at **NED University of Engineering and Technology, Karachi**, teaching in the **Electrical, Electronic and Telecommunications** Engineering Departments. Subjects taught are **Communication Systems, Antenna and Microwave Engineering** and **Occupational Safety and Health** in undergrad and **Advanced Digital Signal Processing** to post grad students. Currently supervised final year Engineering student project include 'Real time navigation system for the blind'.

- **2005 to 2011**

Served as an **Assistant Professor** at **NED University of Engineering and Technology, Karachi**, teaching in the **Electrical, Electronic and Telecommunications** Engineering Departments. Subjects taught are **Communication Systems I&II** to third year and final year Engineering students.

Lab Incharge of Advanced Telecommunications e-learning laboratory and Antenna & Microwave Laboratory.

SENTEC Incharge (Society for promotion of Science Engineering & Technology, NEDUET).

Supervised final year Engineering student projects include '**Iris recognition**' using **Matlab**, '**Automatic vehicle number plate recognition system**' and '**Face recognition**' using **DSP techniques, Matlab and DSK 6713**, '**Comparison of frequency domain and time domain Equalizers for an indoor UWB systems**'. '**Building Recognition using SIFT algorithm**' and '**Depth determination of objects**' implemented in **Matlab**.

- **2003-2004**

A comprehensive training as a Trainee Engineer in the Outages and Projects, Electrical Engineering Department with **International Power Global Development Ltd**, gaining thorough understanding and hands on experience of Operations, Maintenance and trending of Electrical machines parameters and their signal processing. Also worked in the I&C Department gaining experience of the DCS and plant instrumentation. Major projects involve internal Assessment of the plant modifications involving DCS Software modifications, setting up of OPC (OLE for process control) Server, integrating it with the DCS and making available Live Plant Statistics on the Office Network.

- **2002**

Worked with **SUPARCO** (Space and Upper atmosphere research commission) in the Satellite Research and Development Department.

INTERNSHIP:

- Internship at **PHILIPS ELECTRICAL INDUSTRIES OF PAKISTAN** in 2000, where I was assigned a project of Designing and Implementation of trouble Shooting Jig for TV PCBs, which I completed to their full satisfaction.

PHD PROJECT:

MIMO systems with multifunctional reconfigurable antennas

MENGG PROJECT:

Instantaneous Frequency Estimation of Non-Synchronized and Non Stationary EMG Signals using Matlab and DSP techniques.

BE PROJECT:

Facial Image And Voice Recognition System using Digital Signal Processing techniques.

RESEARCH PAPERS:

1. Afsheen, Uzma. "MIMO systems with multifunctional reconfigurable antennas." Thesis UC (2019).
2. Afsheen, Uzma, Peter J. Smith, and Philippa A. Martin. "Reducing codebook loss with reconfigurable receive antennas." IET Communications 10.8 (2016): 955-961.
3. Afsheen, Uzma, Philippa A. Martin, and Peter J. Smith. "Space time state trellis codes for MIMO systems using reconfigurable antennas." IEEE Transactions on Communications 63.10 (2015): 3660-3670.
4. Afsheen, Uzma, Peter J. Smith, and Philippa A. Martin. "Reducing codebook loss by using reconfigurable receive antennas in limited feedback precoded MIMO systems." 2014 Australian Communications Theory Workshop (AusCTW). IEEE, 2014.
5. Afsheen, Uzma, Philippa A. Martin, and Peter J. Smith. "Space time state trellis codes for reconfigurable antenna systems." 2013 IEEE 78th Vehicular Technology Conference (VTC Fall). IEEE, 2013.
6. Afsheen, Uzma, M. Fahim Ul Haq, and Tahir Malik. "Adaptive Algorithm For Fast And Accurate Video Object Tracking Using SIFT And BMA For Slow And Rapid Movements." Proceedings of the International Conference on Image Processing, Computer Vision, and Pattern Recognition (IPCV). The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp), 2011.

7. Khalid, Azra, Uzma Afsheen, and Saad Umer Baig. "Wavelet analysis and high quality JPEG2000 compression using Daubechies wavelet." International Conference on Graphic and Image Processing (ICGIP 2011). Vol. 8285. SPIE, 2011.
8. Afsheen, A. Uzma, and B. Saad A. Qazi. "Study of non-synchronized EMG epochs using a simple synchronizing mechanism in time domain." 2008 3rd International Symposium on Communications, Control and Signal Processing. IEEE, 2008.
9. Qazi, A. Saad A., et al. "Instantaneous Frequency based Study of the Effects of Physical Training on Muscle Fiber Recruitment Strategy." 2007 IEEE International Conference on Signal Processing and Communications. IEEE, 2007.

SPECIAL SKILLS & ACHIEVEMENTS:

Self motivated, efficient, active having good organizational and presentation skills. Hard working and has ability to motivate group members. Can handle multiple tasks, an all rounder and try to excel in whatever I do and eager to learn.

- Have been trained for **Internal Quality Auditing by Llyods**.
- Have also taken a course on **Finance for Engineers** covering economic feasibility for Engineering Projects, from CCEE, NEDUET
- Have also taken English Language Enrichment Program at NEDUET in collaboration with **SPELT**
- Attended workshop on Communication Equipment by **Electronica Venneta**
- Secured 3rd position in Annual Quiz Competition in NED
- Ranked among persons securing a percentile of 99 in IQ by MENSA.

PERSONAL INFORMATION:

Nationality: Pakistani
Date of Birth: May 28th 1979

Gender: Female
Marital Status: Married

REFERENCES:

1.
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