

# AMNA SHABBIR

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## Profile

Accomplished educator with demonstrated ability to teach, motivate, and direct students while maintaining high interest and achievement. Articulate communicator able to effectively interact with diverse populations of students at a variety of academic levels. Consistently maintain excellent relations with students, parents, faculty, and administrators. Self-motivated with strong planning, organizational and leadership skills.

## Academics

### Masters in Engineering

Dec 2009

Majors: Communication Engineering  
NED University of Sciences & Technology, Karachi

### Bachelors in Engineering

Dec 2006

Majors: Telecommunications  
NED University of Sciences & Technology, Karachi

## Professional Experience

### NED University of Sciences & Technology

July 2007 – To Date

The NED University of Engineering & Technology is the oldest degree-level engineering institution in Pakistan, currently offering undergraduate programs in nineteen engineering disciplines along with twenty-seven master's level postgraduate programs. At present, the programs for Doctoral studies are restricted to Faculty Members; this university is implementing its wide-ranging Development Program in which its demands for Faculty Development are of such intensity that they leave no room for offering Doctorate programs for external candidates.

### Lecturer – Electronics & Telecommunications Department

#### Responsibilities includes:

- Developing and implementing new methods of teaching to reflect changes in research
- Designing, preparing and developing teaching materials
- Delivering lectures, seminars and tutorials
- Assessing students' coursework, setting and marking examinations
- Undertaking personal research projects and actively contributing to the institution's research profile
- Writing up research and preparing it for publication
- Supporting students through a pastoral/advisory role and supervising students' research activities
- Undertaking continuous professional development and participating in staff training activities
- Participating in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Undertaking administrative tasks related to the department, such as student admissions, induction programs and involvement in committees and boards

- Representing the institution at professional conferences and seminars, and contributing to these as necessary;
- Establishing collaborative links outside the university with industrial, commercial and public organizations.

## Thesis and Reports

### Masters Research Thesis

“Improving Space time Diversity In A Fixed Point-to-Point Link Using LMS Based Interference Cancellers”, which includes different adaptive and intelligent algorithms to minimize the channel effects and thus maximizing the effective transmission using MATLAB and Simulink.

### Undergraduate Final Year Project Report

**Real Time Mobile Tracking System** - The project is based on the study of hierarchy of GSM network with the in-depth study of forced handovers & able to track the GSM mobile without the use of GPS or any other hardware, it's built using MapBasic language and MapInfo tool 7.5

## Tools and Technologies

**Languages/Software:** MATLAB/Simulink, SONNET, Cadence and Lab View, MapInfo, Mapbasic, Plannet, Egilant, Multisim, Gaia, C language, Visual Basic

**Miscellaneous:** Microsoft Windows (XP/Vista)  
Microsoft Office Suite  
Microsoft Project

**Platforms and Kits:** Field Programmable Gate Array (FPGA) Kit – Altera DE  
Programmable Logic Controllers – Siemens S700

## Career Interests

- Wireless Systems
- Digital Signal Processing
- Communication Systems
- Network Planning and Design

## References:

- **Dr. Saad A. Qazi**  
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Co-Chairman & Associate Professor  
Electrical Engineering Dept. NED UET Karachi Pakistan
- **Dr. Attaullah Khawaja**  
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