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## Syed Hasan Raza

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A self-motivated and conscientious person who enjoys working in a challenging quality environment. Adaptable and flexible towards responsibilities and always willing to learn new tasks and skills. A good team player who can use initiative constructively in order to overcome barriers to progress. Enthusiastic with a strong affinity for Antenna analysis and Design. Outstanding communication, interpersonal, analytical and networking skills.

### Education

#### **2005 -2006 Chalmers University of Technology, Göteborg, Sweden**

International Master Program in Advance Techniques in Radio Astronomy and Space Sciences.

In December, 2006, I have completed master thesis for ‘Sony Ericsson Mobile Comapny, Kista’, Sweden. The task was to investigate the effect of mobile phone components, such as speaker, camera and battery, on the performance of the mobile phone antenna. This involved simulations of the antenna in CST Microwave studio and measurements of the prototype of the mobile phone antenna, made by myself, in the Reverberation Chamber as well as in anechoic chamber.

[http://www.oso.chalmers.se/int-masters-prog/Syed\\_Hasan\\_Raza\\_Zaidi\\_2006.pdf](http://www.oso.chalmers.se/int-masters-prog/Syed_Hasan_Raza_Zaidi_2006.pdf)

#### **2002–2004 Quaid-I-Azam University Islamabad, Pakistan**

M.Phil. in Electronics

As a postgraduate level researcher, I was involved in full one-year research period, in partial fulfillment for the Degree of M.Phil. in Electronics. The research topic was “**Analysis of Semi-Circular Wire Antenna**”. By using multipole expansion method, major landmarks for the analysis of this type of antenna are:

- Derive expression for radiation intensity pattern
- Derive expression for input impedance of the semi-circular shaped wire antenna

#### **1998–2000 Quaid-I-Azam University Islamabad, Pakistan**

M.Sc. in Electronics

As a M.Sc. student, designed “FSK demodulator” during internship. Advanced Engineering and Research Organization initiated this project. The objective is to read the data from radar and convert it into binary stream for PC. The radar sending data by using FSK schemes. The device receives two types of frequencies and converts it into bit stream accordingly.

#### **1995–1997 Punjab University Lahore, Pakistan**

B.Sc. Mathematics and Physics

### Interests

- Antenna Analysis and Design.
- Microwave Engineering.

**Experience****April, 2007 to date: NUST Rawalpindi, Pakistan**

Currently, working as a faculty member in “NUST Institute of Information Technology”.

Teaching: (Fall 2007) Transmission lines and Wave guides.

(Spring 2008) Antenna and Microwave Devices.

**May,2000–Aug, 2005 Ultimus Pakistan Rawalpindi, Pakistan**

*Ultimus* Pakistan is a subsidiary of *Ultimus* Inc. (USA). *Ultimus* has business operations and sales offices throughout North America, Europe, Asia, and South America, the Middle East and maintains a network of more than 85 partners in 60 countries.

Software Quality Assurance Engineer

- As a Quality Assurance Engineer, I was involved in testing the full Life Cycle of the Ultimus Service Project. Testing implementation is done using test plan and test scenarios. The main purpose of this service is to host COM objects and these COM objects are called using separate threads to perform the requested workflow task (Such as retrieving data from ODBC data sources, or sending emails using MAPI (Extended MAPI version 1.0 or SMTP).
- Test thin form and thin client of Ultimus, which are pure HTML form (independent of operating system) containing nearly all the facilities as of ActiveX form / Client.
- Test the performance of the whole product in 16 major localized languages.
- Automate the test scenarios using Visual Route.
- Involved in four major releases of the Ultimus.

**Tools**

Language & Tools: C / C++, Fortran, Assembly, MATLAB, CST Microwave Studio, ADS, HFSS.

OS: Windows 95 / 98 / NT4 / 2000 / 2003.

**References on request**