

Syed, Affan Ahmed

Education:

PhD Candidate Computer Science (Fall 2004 -todate)- Advisor: [John Heidemann](#)

University of Southern California

C.G.P.A: **4.0**

Current Research: Affiliated with [I-LENSE](#) lab and GRA at [ISI](#).

PhD Thesis (tentative): Exploring the field of underwater sensor networks, with aim of identifying, and finding solutions to, major issues in deploying distributed underwater sensor networks.

Masters of Science Electrical Engineering (2003-2004)

University of Southern California

C.G.P.A: **3.95**; Theory (non-thesis) track.

Honors: Awarded the prestigious **TROSS** scholarship, by the Ministry of Science and Technology, Pakistan.

Bachelor of Engineering (with Honors) 1998-2001

National University Of Science And Technology (Pakistan)

C.G.P.A: **3.86** (Ranked **3rd** in Graduating **Electrical Engineering** Class)

Honors: Dean's list and merit scholarship throughout undergraduate studies for 4 years.

Graduate Papers¹:

- *Affan A. Syed, John Heidemann "Time Synchronization for High Latency Acoustic Networks", to appear in INFOCOM 2006.*
- *John Heidemann, Yuan Li, Affan Syed, Jack Wills, and Wei Ye. "Underwater Sensor Networking: Research Challenges and Potential Applications". Technical Report ISI-TR-2005-603, USC/Information Sciences Institute, July, 2005.*

Talks:

- *"Wireless Sensor Networks: From Terrestrial to Underwater", at Lahore University of Management Sciences (LUMS), 25th August, 2005.*

Skills

Programming Languages: C/C++, nesC, Java, Java-Script, CSS, PHP, JSP, mySql, HTML, XML, Perl, Verilog, tcl/otcl.

Platforms: TinyOS, Windows 95/NT/98/2000, Linux, Unix (Sun Solaris).

Applications: TOSSIM, Visual C++ / MFC, K-Develop, MS-Office, ns-2, Glomosim.

Web Servers: Apache, Tomcat.

Industry Experience:

Summer Internship** at [Sensicast Systems](#) (Needham, MA) **May 2004 to August 2004

- *Performed in depth analysis of the existing commercial wireless sensor networking platforms, to ascertain suitability for diverse applications. This involved devising and performing tests that exposed the strengths and weaknesses, both technical and commercial, of each platform.*

Design Engineer** for Avaz Networks (Corp HQ, Irvine, CA) **May 2001 to December 2002

- *Designed and implemented Point to Point Protocol (PPP) using C and Linux as platform.*
- *SIP proxy resolution using NAPTR and SRV Records. RAS, VPN, NAT and firewall setup in a Linux box for a soft router solution.*

¹ Soft copy for all papers/talks presentations can be found at <http://www-scf.usc.edu/~asyed/pubs.html>