

Objective

A summer internship in the field of electrical engineering, with a focus on Wireless Body Area Networks at an esteemed company in order to be better fit for a leading career in a research environment in the industry.

Education

University of Texas at Austin

MS in Electrical & Computer Engineering, expected June 2010

PhD in Electrical & Computer Engineering, expected June 2013

- Advisor: Prof. Robert Heath
- Research Lab: Wireless Networking & Communications Group (WNCG)

American University of Beirut (A.U.B)

Faculty of Engineering and Architecture

B.E. Computer & Communication Engineering, June 2008

- Graduated With High Distinction
- Major GPA: 91.8/100

Selected Research & Design Projects

Hydra: A wireless multi-hop test bed with MIMO capabilities and a flexible software-defined protocol architecture.

Secure Routing for Ad Hoc Networks: Research project on secure routing for ad hoc networks in which improvements to SAODV were simulated to solve colluding black hole attacks.

Senior Design Project: An indoor tracking and location prediction system for the American University of Beirut Medical Center based on triangulation of WiFi and RFID signals.

Selected Coursework:

Communication Systems, Signal and Systems, Control Systems, Information Theory, Wireless Communication, Wireless Communication Lab, Introduction to Systems Theory, Probability and Stochastic Processes, Cryptography and Computer Security, Internet Security, Computer Networks, Electronics, Computer Architecture, Microprocessors (Computer Organization), Operating Systems, Data Structures and Algorithms, Electromagnetics.

Experience

University of Texas at Austin

Graduate Research Assistant, since January 2009

- Supervisor: Dr. Robert Heath
- Working on the "Hydra" project to extend the capabilities of the test bed to include a 4-by-4 MIMO link and several new PHY and MAC layer protocols.

University of Texas at Austin**Graduate Teaching Assistant**, September 2008– December 2008

- Worked as a teaching assistant for the course “Wireless Communication Lab”
- Instructed lab sessions, corrected assignments, corrected exams, and held office hours.

University of California, Berkeley (California Center for Innovative Transportation)**Research Intern**, June 2007 – September 2007

- Worked as a research intern for 9 weeks.
- Researched WiMax networks and worked on deploying and testing the research center’s new WiMax network at the Berkeley Highway Lab.
- Conducted research and feasibility study of implementing new networking protocols (NTCIP) required by the new standards of transportation networks on embedded systems to increase interoperability.

American University of Beirut (Faculty of Engineering and Architecture)**Research Assistant**, September 2007 – June 2008

- Research involving the design and simulation of energy efficient MAC layer protocols for wireless sensor network.
- Research involving distributed underwater localization using wireless sensor networks.

Skills

Windows 2000/XP/2003 Server, Linux
C++, Java, Perl, Python, Tcl/Tk, Microsoft SQL, VHDL
MATLAB, Labview, NS2, Snort, Simulink, Pspice, Mathematica
Microsoft Office
English (native), Arabic (native), French (proficient)