PERSONAL INFORMATION

Naveed Anwar Bhatti



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www.sysnet.org.pk/naveed

Sex Male | Date of birth 22/09/1988 | Nationality Pakistani

WORK EXPERIENCE

Feb. 2012 - Oct.2014

Research Associate

SysNet Lab, National University of Computer and Emerging Sciences, Islamabad

Wireless Sensor Networks:

- Hands on experience of installation and configuration of TinyOS.
- Analyse different wireless energy transference techniques that can be used in WSNs.
- "Sensors with Lasers: Building a WSN Power Grid" research paper accepted at IPSN 2014 as a first author.

Botnet Detection:

- Hands on experience of installation and configuration of Bro- Intrusion Detection System.
- Worked on the detection of different kinds bot's and study the life cycle of a botnet.
- Analysis of a 2.7TB(4 days) network trace for botnet detection using Bro-IDS & tshark.
- Lead a team of researchers to deliver a project on real time ISP based detection of botnets.

Academia

August 2013- Dec 2013 August 2012- Dec 2012 August 2011- Dec 2011

Teacher Assistant of "Advance Embedded Systems" course for MS (TE)

National University of Computer and Emerging Sciences, Islamabad

- Conducted tutorial labs for TelosB, Mbed and MSP430(Evaluation board) platforms.
- Supervised course projects.
- Mark Quizzes, Mid terms and Final

Academia

June 2010- July 2010 (6 weeks)

Internee

Pakistan Telecommunication Company Ltd, Islamabad

- Orientation to Digital Access Cross Connect Network and OFS
- Worked on DCME, LRE's and DXX system
- Worked in NMS of Alcatel (SbS)

Telecom Company

June 2010- July 2010 (6 weeks)

Internee

FAST Engineering Society, National University of Computer and Emerging Sciences, Islamabad

- Worked on AVR Atmega16 developer Kit
- High power motor interfacing with microcontroller using H-Bridge
- Integration of sensor data and robotic arm for autonomous behaviour generation

Academia

FDUCATION AND TRAINING

Nov, 2014 - Current

PhD (Computer Science)

Politecnico di Milano, Milan, Italy

Wireless Sensor Networks

August, 2011 – July 2013 (Gold Medal)

MS (Computer Science)

National University of Computer and Emerging Sciences, Islamabad

- Network Security
- Cloud computing
- Multi Agent Systems
- Swarm Intelligence

August, 2007 - July 2011

BS (Telecommunication)

National University of Computer and Emerging Sciences, Islamabad

- Next Generation Networks
- Advance Embedded Systems
- Wireless and Mobile communication

PERSONAL SKILLS

Mother tongue(s)

Urdu

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
TOEFL(iBT) Score = 100/120				

English

Social skills and competences

Working as a Research Assistant in my lab (SysNet) at NUCES, I learnt the true meaning of "Teamwork". There comes many occasion when we have to meet the deadlines in order to deliver a project to our funding agency on time and in such a scenario teamwork is the only option to deliver the task efficiently and quickly.

Organisational / managerial skills

I worked as a Team Lead in SysNet lab on a small project. During this project I managed a team of 3 researchers and delivered the project to the funding agency.

I was the Vice Coordinator of the Creative Department of NUCES Engineering Society and I managed the decor and promotion of all the major events held under the banner of this society for the year 2010.

I was also the Vice Coordinator of Robotics Society and conducted many robotics related events i.e. Robo Race (Line following competition), Robo War etc.

Technical skills and competences

HARDWARE:

Wasp motes, ST Nucleo L152RE, ST Nucleo F091RC, Parallax Propeller, TelosB mote, NXP Mbed LPC1786, Atmel Network Gateway 100, AVR ATMEGA-16, MSP430 Launchpad

SOFTWARE

TinyOS 2.1.1, Keil uVision v5, VS.NET 2010, Bro 2.1 (NIDS), Verilogger Pro, Django Web Framework

LANGUAGES:

C++, C#, Java, nesC, MATLAB, HTML, CSS, SQL

Artistic skills and competences

GRAPHIC DESIGNING:

I really enjoy designing graphical videos/images using Corel Draw, Adobe CS, Adobe Premier Pro and Google Sketchup (for 3D modelling)

MUSIC:

I also love composing music using Fruity Loops Studio and Piano

Other skills

Team Leadership, Strong Work Ethic and Good Communication Skills

ADDITIONAL INFORMATION

Publications

- Naveed Anwar Bhatti, Affan A.Syed and Hamad Alizai, "Sensors with Lasers: Building a WSN Power Grid", The 13th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN) co-located with Cyber physical System Week, April 2014.
- Osama Haq, Zainab Abaid, Naveed Anwar Bhatti, Zaafar Ahmed and Affan A.Syed, "SDN-inspired, Real-time Botnet Detection and Flow-blocking at ISP and Enterprise-level", IEEE International Conference on Communications (ICC 2015), June 2015
- Naveed Anwar Bhatti, Affan A.Syed and Hamad Alizai, "Laser based Energy Distribution Architecture for Decoupling Energy and Sensing Planes in WSN", International Journal of Distributed Sensor Networks, vol. 2015, Article ID 526858, 18 pages, 2015. doi:10.1155/2015/526858.

Projects

- Long Range RFID: Energy harvesting and transference enabled WSN system (MS(CS))
 We designed a prototype system, which enables WSN platform to communicate at longer range than Passive-RFID, have more sensing capabilities than Active-RFID and will have infinite life time as compared to traditional WSN.
- IUGV (Internet Controlled Unmanned Ground Vehicle) Final Year Project BS(TE)
 We designed a hardware platform where user can able to control the vehicle movement, interact
 with environment through manipulator and have live view of the location over the internet. Awarded
 best FYP in university.
- PIE (Personal Information Extractor) On Windows Mobile 7.5
 We developed an app in Windows Mobile 7.5 SDK which automatically extracting the visiting card information using OCR. The App was declared best project and awarded \$500(Given by Microsoft Research).

Honours and awards

- Gold Medal in MS(CS) Issued by: FAST NU Islamabad
- Best Cloud Computing course project Issued by: Microsoft Research and FAST NU Islamabad
- Best FYP BS(TE) 2011 Issued by: FAST NU Islamabad
- Winner ROBOTHON Issued by: IEEE GIKI
- Winner ROBORACE Issued by: FAST NU Islamabad
- Vice Coordinator Creative Department (2009-2010), ENGG Society, FAST NU Islamabad

References

- Dr. Luca Mottola

luca.mottola@polimi.it Associate Professor Dipartimento di Elettronica, Informazione e Bioingegneria Politecnico di Milano, Italy

- Dr. Affan A Syed

affan.syed.usc@gmail.com Director Engineering at PLUMgrid Inc Islamabad, Pakistan

• Dr. Hamad Alizai

hamad.alizai@nwfpuet.edu.pk Assistant Professor Department of Computer Systems Engineering University of Engineering and Technology (UET), Peshawar, Pakistan