

**GHUFRAN ULLAH**

**- PhD (Computer Science)**



**Address:** Haider Shah Town St No 3 near Army Supply Depot  
P.O City Railway Station  
Peshawar, Pakistan  
**Date of Birth:** 02 July 1985  
**Nationality:** Pakistani  
**Father's Name:** Muhammad Haleem  
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## **OBJECTIVES**

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To be a part of professional and progressive organization offering challenging work environment & opportunity for career progression based on achievements and results.

## **RESEARCH INTERESTS**

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- Cyber Security
- WBAN (Wireless Body Area Network, Medical field)
- Internet of Things (IoT)
- Wireless Sensor Networks (WSNs)
- Mobile Ad-Hoc Networks (MANETs)
- VANETs

## **EDUCATION**

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Nov 2014                      **Doctor of Philosophy (PhD) Computer Science**  
**Faculty of Computing, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia**

**Specialization**              **Wireless Sensor Network for Real Time Systems**

**Research Title:**            **Enhanced Delay-Aware and Reliable Routing Protocol for Wireless Sensor Networks**

June 2010                      **Master of Computer Science (CGPA 3.22/4.0)**  
**Department of Computer Science, City University of Sciences & Information Technology Peshawar, Pakistan**

July, 2006                      **Bachelor of Computer Science**  
**University of Peshawar, Pakistan.**

## **WORK EXPERIENCE**

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Feb 2020 – to Date

**Currently working as Assistant Professor at Pak-Austria Fachhochschule Institute of Applied Sciences and Technology, Mang, Haripur, Pakistan**

Jan 2015 – 30 Jan 2020

**Worked as Assistant Professor at City University of Science & Information Technology Peshawar, Pakistan**

**Worked As Head of Department (Computer Science)/Assistant Professor from August 2015 – August 2017 at City University of Science & Information Technology Peshawar, Pakistan**

- Administration of Computer Science Department
- Member of Final Year Project Graduate Coordinating Group
- Teaching to Different Graduate and Undergraduate Students
- Preparing curriculum for Computer science subjects and assessing the trainees

November 2012. - May 2012

**Research Assistant – University Technology Malaysia**  
Johor Bahru, Malaysia

Worked on a research project **funded by eScience (Malaysia)** on the topic of Intelligent Indoor Position Tracking System using Wi-fi

August 2009-December 2011

**Lecturer- AIBM institute of Higher Education, Kabul, Afghanistan**

Teaching undergraduate students and training to the employees of ministry of Agriculture, Kabul Afghanistan

## **Projects/Research**

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### **1. Bachelor Projects Developed under my Supervision**

- a) Gym Trainer(Funded by ICT, Pakistan)**
- b) Train Tracking System(Funded by ICT, Pakistan)**
- c) Patient Monitoring System(Funded by ICT, Pakistan)**
- d) Online Bus Ticket Reservation System**

### **2. MS Supervision**

- a. Supervised and Graduated Seven MS students in the following fields**
  - i. Vehicular Ad Hoc Networks**
  - ii. Underwater Sensor Networks**
  - iii. Wireless Body Area Networks**

## **RESEARCH PUBLICATION(S)**

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Haseena Gul, **Ghufran Ullah**, Muzammil Khan, Yosra “Energy-Efficient Regional based Cooperative Routing Protocol for Underwater Sensor Networks with Sink Mobility” Journal of Ambient Intelligence and Humanized Computing Received: vol. 3 (2021) (**Impact Factor 4.594**)

Muzammil Khan, Sarwar Shah and **Ghufran Ullah**, “Evaluating Interactive Visualization Techniques on Small Touch Screen Devices” International Journal of Grid Distribution Computing vol. 12 no. 2 |pp. 31-48,2019

**Ghufran Ullah** and Abdul Hanan Abdullah, "A Study of Delay Reliability Trade-off in Wireless Sensor Network." World Applied Science Journal Vol.29 No.11 (2014): 1423-1426.

**Ghufran Ullah** and Abdul Hanan Abdullah, "An Efficient Delay Aware Routing Protocol for Real Time Systems in Wireless Sensor Network", Journal of Theoretical and Applied Information Technology Vol. 69 No. 3 (2014): 611-616.

**Ghufran Ullah** and Abdul Hanan Abdullah, "A Survey on QoS Provision Techniques in Wireless Sensor Network", Middle-East Journal of Scientific Research 22 (6): 900-915, 2014.

**Ghufran Ullah** and Abdul Hanan Abdullah, "Comparison of Reliability VS Delay in Wireless Sensor Network", Middle-East Journal of Scientific Research, 22 (11): 1711-1713, 2014.

Ishfaq Ahmad, **Ghufran Ullah**, Wajid Ullah Khan, Rashid Naseem and Adil Sheraz, "Investigation of Ieee 802.15.4 Fixed Duty Cycle During Nodes Mobility Under Different WBAN Performance Metrics" International Journal of Computer Science and Information Security. Vol. 17, No. 4, April 2019

Ishfaq Ahmad, **Ghufran Ullah**, Wajid Ullah Khan, Rashid Naseem and Adil Sheraz, "Impact of BO and SO on IEEE 802.15.4 Standard Super Frame Structure under Different Parameters" 3<sup>rd</sup> Abasyn International Conference on Technology and Business Management (AiCTBM-2018)

Qazi Haseeb, Muhammad Arif Shah, Rashid Naseem, Karzan Wakil, **Ghufran Ullah**, "An effective Approach to Analyze Algorithm Linear  $O(n)$  Worst-Case Asymptotic Complexity" in International Journal of Advanced Computer Science and Applications. Vol. 10, No. 3, 2019

Muhammad Yaseen, Rashid Naseem, Zahid Ali, **Ghufran Ullah** "Identification of Challenges During Requirements Implementation in Global Software Development: A Systematic Literature Review" Journal of Software Engineering & Intelligent Systems. 30<sup>th</sup> April 2019, Volume 4, Issue 1

Kashif Qureshi, Abdul Hanan Abdullah, Raja Anwar, **Ghufran Ullah**, "Sensor-based Vehicle Information system" International Symposium on UbiCom Frontiers - Innovative Research, Systems and Technologies (UFirst 2014)

Kashif Saleem, **Ghufran Ullah**, Sana Ullah "Comparative Study of Uni-Model and Multi-Model Biometric System using Iris", International Conference on Emerging Trends in Engineering, Management and Sciences (ICTEMS-2016)

Bilal Khan, **Ghufran Ullah**, Sana Ullah "An Empirical Study on Different Techniques for Heart Disease Prediction using Data Mining" International Conference on Emerging Trends in Engineering, Management and Sciences (ICTEMS-2016)

Atif Ullah, **Ghufran Ullah**, Sana Ullah "A Survey of Data mining Classification for Human Chronic Diseases " International Conference on Emerging Trends in Engineering, Management and Sciences (ICTEMS-2016)

Sarwar Shah Khan, Muzammil Khan, **Ghufran Ullah**, "PashApp" A User-Friendly Pashto Text Editor", International Conference on Emerging Trends in Engineering, Management and Sciences (ICTEMS-2016)

Mohd Najib Mohd Salleh, Kashif Hussain, Shi Cheng, Yuhui Shi, Arshad Muhammad, **Ghufran Ullah**, Rashid Naseem, Exploration and Exploitation Measurement in Swarm-based Metaheuristic Algorithms: An Empirical Analysis (2018), International Conference on Soft Computing and Data Mining, (**Springer**)

## **Memberships**

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- **Member of National Curriculum Review Committee(NCRC), HEC, Pakistan**
- **Member of Academic Council**, City University of Sciences & Information Technology Peshawar, Pakistan
- **Member of Board of Faculty**, City University of Sciences & Information Technology Peshawar, Pakistan
- **Member of Board of Advanced Studies & Research**, City University of Sciences & Information Technology Peshawar, Pakistan
- **Member of ORIC**, City University of Sciences & Information Technology Peshawar, Pakistan
- **Member of Board of Study, Abasyn University Peshawar& Islamabad Campus**

## **PARTICIPATIONS**

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- Attended workshops on Cyber Security at Islamabad 2018
- 3<sup>rd</sup>International Conference on Emerging Technologies (ICET-2017)
- EAI International Conference on Future Intelligent Vehicular Technologies OCTOBER 17–19, 2017
- Workshop on Network Simulator (NS2), University Technology Malaysia

## **COMPUTER SKILLS**

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- **Hands-on experience of CCNA Routing and Switching**
  - Planning, designing, and troubleshooting Network Infrastructure using Guided and Non-guided solutions (Wired and Wireless)
  - Planning and Implementing the IP Networks (IPv4, IPv6)
  - Planning, configuring and troubleshooting the Virtual LANs and Inter-VLAN Routing
  - Configuring and troubleshooting the WAN Links with multiple scenarios including VPN for Secure Data Communication
  - Securing the network communication using Access Control Lists
  - DHCP configuration using IPv4 and IPv6
  - Cisco Routers and Switches IOS configuration, management and troubleshooting
  - Configuring Switched Networks (Switching Loops control, STP, VTP)
  - Implementing and troubleshooting the Routing networks using Static Routing, RIPv1, RIPv2,
  - EIGRP, OSPF, eBGP
  - Configuring and management of Network Monitoring Operations using syslog, SNMP and Net flow
  - Configuring the redundancy using HSRP

- Network Troubleshooting
- **Network Simulator (NS2)**
  - TCL programming basics
  - Implementing Ad-hoc Networks in NS2
  - Random topology generation
  - Node mobility
  - Post Processing – Result Analysis

## **LANGUAGES Known**

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English, Urdu, Pashto and Persian

## **References**

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### **Dr. Asim Zeb**

**Assistant Professor** Department of Computer Science, Abbot Abad University of Science & Technology

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### **Dr. Javed Iqbal Bangash**

Assistant Professor Agriculture University, Peshawar

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### **Dr. Shahid Kamal**

Assistant Professor Gomal University, D.I Khan

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