

**Objectives**

My ultimate goal is to be an accomplished researcher in Networking. With that aim in view, I would like to pursue the PhD program to excel in my field through a continuous learning process and keep myself dynamic, visionary and competitive with the changing scenario of the world. My technical interests are Wireless and sensor networks, Network Security, Mobile computing and Robotics. I am highly motivated person who's ready to work hard to come up with novel solutions.

**Research Interest**

Cloud and Mobile Computing, Sensor and Actuator Networks, Mobile Robots, IoT, Routing protocols, Distributed Networks, Network Security, Computer Security, Mobile Security, Data encryption, Meta-heurist, Machine Learning and Big Data.

**Education**

King Fahd University of Petroleum and Minerals, Saudi Arabia. **M.Sc.** in Computer Engineering. Major: Computer Networks. GPA: **(3.714/4)** (graduated in May 2017) 2014 – 2017

Thamar University, Yemen. **B.Sc.** in Computer Science, Faculty of Computer Science and Information Systems, Major: Computer Science: GPA **(87.22/100)** 2005-2009

**Work Experience**

**Teaching Assistance**, Worked as academic staff in the faculty of Science and Education, Thamar University, Thamar – Yemen. 2010-2012

**Volunteer**, established with my friends Yemen Gateway for Information Technology, to learn the people how to use computer and internet and to build programs and systems for free in our country. 2012

**Publications**

[1] **A. Al-baseer**, G. Bin, and A. Bawazir, “**Multi-hop Wireless Network: A Comparative Study for Routing Protocols Using OMNET ++ Simulator,**” Journal of Ubiquitous Systems & Pervasive Networks, vol. 7, no. 1, pp. 29–34, 2016.

[2] U. Baroudi and **A. Albaseer**, **Anomaly Resilient Node Placement Approach for Pipelines Monitoring**, 2017 International Wireless Communications and Mobile Computing Conference (IWCMC), 2017.

[3] **A. Albaseer**, and U. Baroudi, **Sensor Node Placement Approaches for Pipelines Monitoring: Simulation and Experimental Analysis**, International Journal of Sensor Networks (Accepted).

[4] **A. Albaseer** and U. Baroudi, “**A novel Power-Efficient Node Placement Approach for Water Pipelines monitoring,**” IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS (Submitted)

[5] **A. Albaseer** and U. Baroudi, “**Equally Spaces Different Members Node Placement Approaches for linear WSNs,**” IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS (Under final steps)

**Thesis**

- [1] **M.Sc. Thesis:** Performance Evaluation of Node Placement Schemes for Water Pipelines Monitoring  
Supervisor: **Dr. Uthman Baroudi** May, 2017
- [2] **B.Sc. Thesis:** Enhancement of AODV protocol in Adhoc wireless networks. 2009  
Supervisor: **Dr. Maher Alsanabani**

**Patents**

- [1] **A. Albaseer, U. Baroudi, "ANOMALY RESILIENT NODE PLACEMENT APPROACH FOR PIPELINES MONITORING," (Approved and filed) (503643US)** 2016
- [2] **A. Albaseer, U. Baroudi, S. Salem "RECURSIVE METHOD FOR PLACING SENSORS FOR ONLINE MONITORING," (Approval No: 506786US)** 2017

**Technical Skills**

- **Hardware:** CISCO Router & Switch, Modem(Rad/Ascom), Mettler, Low power devices
- **Extensive experience in data collection** (writing scripts, filtering, parsing, etc.)
  - Collecting Network traffic over Ethernet/Wireless
  - Running malware over sandboxing or virtualization environments.
- **Programming:** very comfortable in python, Assembly, Java, C/C++, Visual Basic, C#, nesC
- **Scripting:** PHP, CSS, VBScript, JavaScript, Nodejs, Ajax, REST
- **Scientist:** MATLAB, GNS3 emulator, TinyOS(Excellent), Contiki OS(Excellent)
- **Platforms:** Windows, Linux
- **Document:** Processing: Word, LATEX
- **Databases:** MySQL, Oracle.
- **Virtualization:** VMware, VirtualBox

**Developed tools  
And  
Term projects**

- A Network-aware Virtual Machine Placement Algorithm in Mobile Cloud Computing Environment.
- Decide executable binary file's platform type
- Analyzing the performance of the OpenFlow standard for software-defined networking using the OMNeT++ network simulator (Saudi Arabia Case Study)
- Malware Family clustering using approximate hashing
- Network flaw feature extraction from large Pcap file.
- Ad-hoc protocols analysis

**Honors and  
Awards**

- [2014] Graduate Scholarship for 3 years from King Fahd University of Petroleum and Minerals to study M.Sc. in Computer Networks.

<b>Graduate Courses</b>	Computer Networks	Fall 2014
	Management Information Systems	Fall 2014
	Internet Information Services	Spring 2015
	Computer Network Design	Spring 2015
	Performance Evaluation/Analyses	Spring 2015
	Wireless Ad hoc Networks	Fall 2015
	Client Server Programming	Fall 2015

**Selected undergraduate courses**      Operating system, Computer Architecture, Digital Design, Computation Theory, Computer Networking, Algorithm design and analysis, Data Encryption and Compilers

- References**
- Dr. Uthman Baroudi**      E-mail: [ubaroudi@kfupm.edu.sa](mailto:ubaroudi@kfupm.edu.sa)  
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