Dr. Hisham A. Mageed
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CURRICULUM VITAE

SUMMARY

Dr. Mageed (Ph.D.) is an expert on communications technologies with vast international experience in the telecom industry in the USA and in the Middle East & Africa region. A highly experienced engineer, academic, consultant and entrepreneur.

PROFESSIONAL EXPERIENCE

HAMTECH COMMUNICATIONS LLC (PLANO, TEXAS, USA) 1998 - Present

Technology Consultant

- Founded Hamtech Communications LLC, a US-based hi-tech consulting company, a systems integrator and a provider of leading-edge communications solutions to developing markets in the Middle East & Africa.
- Provided solutions, which include wireless broadband point-to-point (PTP), point-to-multi-point (PMP), mesh wireless WAN/LAN, voice over IP (VoIP), digital two-way radio (VHF/UHF), and satellite communications.
- Served clients, which include enterprises, telecom operators, public-utility corporations, UN organizations and NGOs, academic institutions, banks, and the oil and gas industry, providing connectivity, and, in the process, increased efficiency.
- Established strategic partnerships with international and regional hi-tech companies, including Cambium Networks, Motorola Solutions, Gulfsat Communications, Minerva Technologies, Winncom Technologies, Tessco, Teldio, Aptec, and Westcon.
- Attended numerous seminars and technical training courses in advanced communications technologies in the USA and the UAE.
- Planned projects and directed technical teams.
- Achieved a consistent streak of revenue growth in the range of 20%-75% year-over-year.
- Established in 2004 the first partnership in the region with Orthogon Systems, a UK-based startup company and a leading international provider of wireless broadband systems. Orthogon was later acquired by Motorola (USA) in 2006.
- Hamtech Communications became a Motorola authorized provider of wireless broadband solutions and a Motorola reseller partner for two-way radio systems.

- Hamtech in 2006 became a channel partner of Minerva Technologies in Dubai, UAE, and collaborated in regional hi-tech projects.
- Hamtech in 2007 became a channel partner of GulfSat Communications (Kuwait), a regional provider of satellite communications.
- Provided communications solutions and executed projects in Sudan and South Sudan for the United Nations (WFP, UNDP, and UNHCR), enterprises, the public-utility company, oil and gas corporations, mining companies, universities, and regional telecommunications operators (Zain, Sudatel, and Canar/Etisalat).
- Selected by Sudatel as provider of last-mile wireless connectivity solutions.
- Selected by Sudanese Electricity Company as provider of wireless solutions.
- Established a partnership in 2013 with Advanced Wireless Solutions in Libya.
- Planned and executed in 2013 a wireless broadband pilot project for General Electricity Company of Libya (GECOL).
- Established partnerships with IE Networks in Ethiopia and SCE in South Sudan.
- Involved in researching emerging technologies and making investments in the hi-tech industry.
- Research paper on wireless/data communications accepted at the 2001 Canadian Conference on Electrical and Computer Engineering.
- Research paper on satellite/wireless communications contributed to the 10th International Conference on Telecommunication Systems (California, Oct. 2002).

SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY (SUDAN) 2007 - Present

Adjunct Professor of Electrical Engineering

- Spearheaded the curriculum design and instruction of courses in communications engineering, covering subjects such as principles of communication systems, wireless/satellite/radio communications, data networks, electromagnetics, DSP, etc. at School of Electronics Engineering.
- Implemented innovative teaching methods, resulting in a 25% increase in student engagement, a 30% improvement in exam scores and achieved a 95% student satisfaction rate.
- Supervised graduation projects of undergraduate students.

GINAWI TECH INC (DALLAS, TEXAS, USA) 2015 - Present

Principal Technical Instructor

- Designed and taught technical training courses in wireless/radio communications including LTE/5G networks to professional engineers in the USA and the MEA region.

NEC AMERICA, INC. (DALLAS, TEXAS, USA) 1997 - 1998

Senior Product Engineer

- Worked at the Wireless Engineering Division, Product Development Dept.
- Participated in the activities of the CDMA Development Group (CDG) and the Telecommunications Industry Association (TIA) TR-45.5, especially the CDG Advanced Systems Team and Working Group IV of the TR-45.5 for developing a 3G CDMA (cdma2000) standard.
- Synthesized conclusions in reports/presentations to directors, managers, and sr. engineers based on information gathered from industry meetings, industry data research, customer requirements, product modification request analyses, and product tests.
- Familiar with IS-95 and other wireless communications standards; attended CDMA training courses with QUALCOMM Inc. that included "*cdmaOne Concepts and Terminology*," "*IS-95A: The cdmaOne Standard*," and "*Enhancements to IS-95A*." Also, attended a training course with George Washing University on "*Cellular and Wireless Telephony*."
- Was part of the NEC Wireless Data Group and provided research and technical assistance for the Group; familiar with the Wireless Application Protocol (WAP) and the activities of the WAP Forum.
- Participated in the IEEE SCC34 SC2 activities to specify protocols for the measurement of the spatial-peak specific absorption rate (SAR) in the human body of users of certain hand-held radio transceivers, including hand-held telephones used for cellular and personal wireless communications.

EDUCATION

- Ph.D. Electrical Engineering
  Southern Methodist University, Dallas, Texas, USA
- M.S.EE. Communications
  George Washington University, Washington, DC, USA
- B.Sc. Electrical Engineering
  University of Khartoum, Khartoum, Sudan

RESEARCH EXPERIENCE

- Ph.D. Dissertation: On a multiple access protocol which combines the CDMA and ALOHA techniques for personal communications in LEO satellite data networks. Computer simulation was used to study the throughput-delay performance and to study the power efficiency of PCS terminals as well as the capture effect.
- Graduate-Study Projects: On computer communication networks employing HDLC as a bit-oriented protocol for data link control; on queuing and routing techniques in data networks; and on the effect of rain-induced attenuation on a GEO satellite link.
- Undergraduate-Study Project: On wireless data communications.

PUBLICATIONS

- "Spread ALOHA as a Multiple Access Technique for Satellite Personal Communications and the Capture Effect," Proc. 10th International Conference on Telecommunication Systems, pp. 812-817, Monterey, California, Oct. 2002.

HONORS

- Awarded "*Superior Performance*" distinction from George Washington University for the Master's Comprehensive Examination in major of specialization (Communications).

PROFESSIONAL & COMPUTER SKILLS

- Big Data, Data Analytics, Project Management
- Applications: MATLAB, SIMULINK, OPNET, Word, Excel, PowerPoint, Visio, Scientific WorkPlace (including Maple), and Mathcad.
- Operating Systems: WINDOWS, MAC OS X, and UNIX.

PROFESSIONAL AFFILIATIONS

- IEEE Communications Society
- IEEE Vehicular Technology Society
- Garage Technology Ventures