Curriculum Vitae Dr. Khaled Elbehiery (Professor Telecom Leader Scientist Author)	

Dr. Khaled Elbehiery

Professor of Cloud Engineering Devry University University, USA.

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OBJECTIVE

A Computer Networking, Virtualization, and Cloud Engineering position where I can capitalize on my skills and long years of experience in different high technology fields with significant accomplishments to improve the efficiency of operation and new system development.

EDUCATION

■ Doctorate (Ph.D.) in Robotic Science, 2022

Michigan Sciences University, USA.

Dissertation: The Robotized System Solutions for Cloud Services Platform.

■ Professor Degree in Information Technology, 2021

Diana Intl College, United Kingdom.

■ Honorary Doctorate Degree in Cloud Engineering, 2021

Vanridge University, USA.

■ Doctorate (Ph.D.) in Management Information System, 2005

Kennedy-Western University, Faculty of Computer Science, USA.

Dissertation: The Impact of Modern Strategies on Business Operations utilizing Cloud Engineering.

■ Master of Science (MSc) in Computer Science, 2000

Cairo University, Faculty of Engineering, Egypt.

Thesis: Performance Evaluation of the New Microprocessors Architecture.

GPA: 3.00

Bachelor of Science (BSs) in Telecommunication and Electronic Engineering, 1994

Alexandria University, Faculty of Engineering, Egypt.

Project: Fault Detection of Digital Electronic Cards.

GPA: 3.87 (Excellent with Honor degree)

CERTIFICATIONS

■ AWS (Amazon Web Services)

AWS Certified Cloud Practitioner, AWS (Amazon Web Services)

VMware

VCP6-CMA VMware Certified Professional Cloud Management and Automation, VMware Networks.

VCP6-NV VMware Certified Professional Network Virtualization, VMware Networks.

VCP6-DCV VMware Certified Professional Data Center Virtualization, VMware Networks.

VCA-DCV VMware Certified Associate Data Center Virtualization, VMware Networks.

Cisco

CCNP CISCO Certified Network Professional, Cisco.

CCDP CISCO Certified Design Professional, Cisco.

CCNA CISCO Certified Network Associate, Cisco.

CCNA Security CISCO Certified Network Associate Security, Cisco.

CCNA Wireless CISCO Certified Network Associate Wireless, Cisco.

CCNA Data Center CISCO Certified Network Associate Data Center, Cisco.

CCDA CISCO Certified Design Associate, Cisco.

CDCUCSS Cisco Data Center Unified Computing Support Specialist, Cisco.

Juniper

JNCIS-M Juniper Networks Certified Internet Specialist, Juniper Networks.

JNCIA-M Juniper Networks Certified Internet Associate, Juniper Networks.

Microsoft

MCP Microsoft Certified Professional, Microsoft.

■ CompTIA

A+ Certification, CompTIA.

MEMBERSHIP & AWARDS

- Scientific Session Chief & KeyNote, The 8th International Congress on Information and Communication Technology (ICICT 2023) ©Springer Nature, London, UK, 20-23 February, 2023.
- World Scientist and University Rankings, AD Scientific Index ID (4631808), USA, 2023.
- Asian Council of Science Editors (ACSE) membership, Dubai, U.A.E, July 2021.
- Honorary Doctorate Degree, in Cloud Engineering, Vanridge University, USA, July 2021.
- Award of Academic Excellence, in 5G technologies, John Hever Academy, United Kingdom, April 2021.
- Scientific Conference Speaker & KeyNote, The Second World Conference on Internet of Things: Digital Transformation Technology: Informatics Insights (ITAF 2020), Cairo, Egypt, ©Springer Nature, 26 & 27 January, 2021. (https://www.itaf.link/itaf-2020/speakers-guests)
- <u>Edison Award 2021 Nominee</u>, globally respected leader in honoring the highest levels of innovation, May 2021. (https://edisonawards.com/nomineegallery2021.php)
- <u>Scientific Project Supervisor</u>, The Science Breakthroughs of the Year Award foreigner supervisor for project, "Gravitational Energy; Aerospace's Future Technology," Falling Walls and Berlin Science Week, The World Science Summit "Meet the brightest minds on the planet", Berlin, Germany, November 1st to 10th, 2020.
- <u>Scientific Reviewer Member</u>, International Scientific Committee, WASET, World Academy of Science, Engineering and Technology, November 2020. (<u>www.waset.org</u>)
- <u>Scientific Reviewer Member</u>, IJRIAS (International Journal of Research and Innovation in Applied Science), Research and Scientific Innovation Society, October 2020. (https://www.rsisinternational.org/journals/ijrias/)
- Best Researcher Award, Prestigious Scientist Awards (ISAH2020), 10th International Scientist Awards on Engineering, Science and Medicine, 2020, Scientist Awards, Hyderabad, India, 26-27-Sep-2020. (Reference No.: VDSA2463) (https://www.vdgood.org/award_details/10th-international-scientist-awards-on-engineering-science-and-medicine)
- United States Government NSA (National Security Agency) and CNSS (Committee on National Security Systems) award 4011 recognition.

WORKING EXPERIENCE

Professional

■ Senior Director, Design and Engineering, Charter Communications, (2016 – Current)

- O Architecting, designing, deploying, and operating georedundant cloud architecture solutions to include on-premise datacenters, private cloud, multi-cloud, and integrating with public cloud providers, riding consistent reliable network serving as the back end of centralized and edge applications such as wireless, video and IoT services, in addition to utilizing the monitoring and analytics tools to optimize the production cost of the workloads. Adapting and investing in state-of-the-art hyperconvergence cloud deployment and cloud native application that simplify and automate network operation with agility.
- O Developing strategies and architecting IP network infrastructure, Wireless, IoT architecture nationwide to accommodate with Internet usage growth based on wide technical knowledge and long-term experience with residential and commercial footprint of internet service providers and cable operators. Building a scalable backhaul backbone network architecture adapting to the technology demands of consumer services, cost and contracts negotiation with vendors and service providers, evaluating the choices of the test results, and managing the projects timeline accordingly.
- O Managing and enriching cross organization working relationship to serve the organization goals in timely fashion utilizing all available resources. Coordinating any necessary efforts with customers and facilitating technical challenges or any strategic financial demands to assure a high-level satisfaction. Financial and capacity planning for annual budgetary purposes, formulating projects execution plans and presenting them to executive leadership for approval and financial support.

■ Principal Network Engineer, Time Warner Cable/Charter Communication, (2012 – 2016)

- O Architecting low latency backhaul peering with public internet providers such as AT&T and Google on wide spread geographical locations nationwide in addition to providing a direct connect access to cloud providers such as AWS and Microsoft Azure for hybrid architecture purposes.
- O Advanced knowledge and experience with IP routing backbone network architecture, service providers peering locations nationwide and optical transport network. Years of experience with DNS, DHCP scope work, RADB, and ARIN allocation assignments. Designing and operating cloud architecture utilizing software defined data center and network virtualization NSX to provide agility and availability. Designing and operating LTE/Wireless/Wi-Fi network and small cells gNodeB utilizing backbone IP network to achieve mobility across the nation.
- O Documenting and publishing standards of the network topologies and designs along with capacity planning and cost proposals to the executive leadership. Coaching, training, and mentoring new engineers, cooperating with other vertical departments in the organization to develop solutions and time line delivery for new deployment or integrating with another network segment due to acquiring process.

■ Senior Network Engineer, Time Warner Cable/Charter Communication, (2009 – 2012)

- O Advanced working experience with Cisco and Juniper hardware platforms IPv4 and IPv6, routing protocols such as BGP, OSPF, IS-IS, and advanced services protocols such as Multicast, MPLS, LDP and their implementation of data and video transport over VPLS, L2VPN, L3VPN, and VXLAN. Deploying data centers networks with firewalls from different vendor such as Cisco (ASA and Firepower) and Juniper (SRX) in addition to intrusion detection and protection security layers.
- O Integrating national backhaul network at the POP locations with CDN and cloud providers edge peering to deliver fast access to contents. Implementing and operating optical transport networks as underlaying infrastructure for IP network core 100G/400G links using different platform such as DWDM/CWDM, SONET (Nortel/Ciena, Cisco ONS and Infinera). Advanced work experience with commercial customers for Internet, Point to Point, Point to Multi-Point, and BGP peering as well.

■ Network Engineer, Time Warner Cable/Charter Communication, (2006 – 2009)

- O Integrating LAN, WAN, internet, intranet components, and deploying IP networks with various protocols, hardware, configuration, tools, monitoring, and troubleshooting on large IP and ethernet networks. Building Regional Transport optical/IP network topologies with wide knowledge and years of field experience with OTDR, optical meters and fusion splicers.
- O Working experience with IPv4 and IPv6 routing protocols (RIP, OSPF, ISIS, and BGP), datacenters architectures include Firewalls, VPN, commercial customers for Internet, video and voice, and advanced experience with MSO operation of CMTS/DOCSIS services over HFC plants that support HSD/VOIP/Video. Operating national video network distribution using multicast and unicast video network services.

Network administrator, Time Warner Cable/Charter Communication, (2003 – 2006)

- O Working experience with MSO headend for video broadcast through satellite-based stations, installing satellite LNBs, activating satellite receivers, grooming and aggregating channels using ASI and DEHI for analog transport on QPSK and QAM modulation and digitizing the feeds over IP network for transport across the nation in addition to deploying Video on Demand applications.
- O Field experience with RF meters, QAM analyzers and spectrum analyzers for testing analog and digital channels. Validate end-to-end video performance for HFC plant. Deploying and operating DOCSIS based cable access networks (CMTS) for data and voice delivery, familiarity with modulation and capacity planning, integrating it with IP network on different IP protocols such as OSPF, RIB and BGP for IPv4 and IPv6.

❖ Academic

■ <u>Visiting Professor DeVry University (2011– Current)</u>

Professor of Computer Science and Networking

- O Computer Architecture
- O Computer Networking
- O Computer Networking Laboratory
- Internetworking
- Advanced Networking
- O Cloud Engineering
- O Modern Developments in Advanced Networking
- O Computer Network Security
- O Information Security

■ Visiting Professor Park University (2013– Current)

Professor of Computer Science and Networking

- O Introduction to Networking & Routing
- O Network Scaling
- O Connecting Networks
- O Introduction to Computer (A+)
- O Computer Networking Routing & Switching
- O WAN Technologies
- O WINDOWS Network OS
- O UNIX Network OS
- O Converged Networks
- O Wireless Networking
- O Enterprise Network Design
- O Advanced Topics (Voice and Video Transport, Fiber Optic, and LTE)
- O Principles Info Sys Security

■ Visiting Professor ITT-TECH (2012–2016)

Professor of Computer Science and Networking

- O WAN Technology and Application
- O Network Technology and Service Integration
- O IP Networking & Network Communications Infrastructure
- O Fundamentals of Network Security Firewalls and VPNs
- Information Technology Infrastructure Security

PROFESSIONAL ACTIVITIES

- ISSA (Information Systems Security Association); "360 Degree Cyber Security Leadership," BrightTALK, February 02, 2023, USA.
- (ISC)² Think Tank; "(ISC)² Security Congress 2022 Town Hall," Web Conference, BrightTALK, October 12, 2022, USA.
- Sova Assessment; "AI & ethics: how to ensure talent assessment is fair," BrightTALK, May 18, 2022, USA.
- Boston Dynamics; Spot on Site: Construction & Real Estate Applications, USA, May 12th, 2021
- Cable Next-Gen Technologies & Strategies Digital Conference, USA, April 28th & 29th, 2021
- Amazon AWS; Hybrid Cloud Made Easy with AWS Outposts & Direct Connect, USA, April 22nd, 2021
- The US-Canada Digital Economy: Powering Market Performance with Strategic Telco Partnerships, USA, March 24th, 2021
- CSO's Cybersecurity Summit, USA, March 16th to 18th, 2021
- Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM); The Connected Vehicles using Edge & 5G Road Ahead, New Delhi, India, March 12th, 2021
- Bharati Vidyapeeth's Institute of Computers Applications and Management (BVICAM); Quantum Computing A Primer on Applications & Opportunities, New Delhi, India, March 5th, 2021
- Amazon AWS; AWS Innovate Online Conference AI & Machine Learning Edition, USA, February 24th, 2021
- Schneider Electric; Innovation Talk Webinar: How Colocation Facilities Can Tackle Environmental Impacts with Energy Targets, USA, February 23rd, 2021
- AT&T Security; Securing 5G: The Future of Enterprise Connectivity, USA, February 17th, 2021
- CIO's Future of Work Summit, USA, February 16th to 18th, 2021
- LightReading Digital; Optical Networking Digital Symposium, USA, February 16th & 18th, 2021

SCIENTIFIC AND ACADEMIC PUBLICATIONS

* Books

- Khaled Elbehiery, Hussam Elbehiery, "Study on Millennium Robotics, Powered by Artificial Intelligence and Cloud Engineering," New Approaches in Engineering Research Vol. 10, Chapter 11, Page 124-137, Print ISBN: 978-93-91595-34-0, eBook ISBN: 978-93-91595-42-5, B P International, UK, August, 2021.
- Khaled Elbehiery, Hussam Elbehiery, "Universal Entrepreneur Education System" LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN (978-613-9-90152-4), September, 2019.
- 3. *Khaled Elbehiery*, Hussam Elbehiery, "Entrepreneur Cloud Computing Educational System", LAP LAMBERT Academic Publishing GmbH & Co. KG, ISBN (978-3-659-21830-9), June, 2019.
- 4. *Khaled Elbehiery*, "Busiformation Technology, The Impact of Modern Strategies on Business operation", New York:Lambert Academic Publishing, 2011 ISBN:978-3-8465-9190-1.

Journals

- Khaled Elbehiery, Hussam Elbehiery, "Architecture for Smart Cities' Sustainable Modular Houses", World Academy of Science, Engineering and Technology, International Journal of Urban and Civil Engineering, Vol:17, No:1, USA, January 2023. (https://waset.org/smart-cities-and-sustainable-urbanism-conference-in-january-2023-in-new-york)
- Khaled Elbehiery, Hussam Elbehiery, "Entrepreneur Universal Education System: Future Evolution", World Academy of Science, Engineering and Technology, International Journal of Educational and Pedagogical Sciences, Vol:15, No:1, USA, January 2021. (https://publications.waset.org/10011730/pdf)
- Khaled Elbehiery, Hussam Elbehiery, "Securing Government Services; Blockchain Strategy in the course of Pandemics" International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 9, Issue 9, pp. 7957-7974, Tamilnadu, India, e-ISSN: 2319-8753, p-ISSN: 2320-6710, September 2020. (DOI:10.15680/IJIRSET.2020.0909001).
- Khaled Elbehiery, Hussam Elbehiery, "Space Industry; Future Giant Leap Investment" Seventh Sense Research Group, International Journal of Industrial Engineering (IJIE), Volume 7, Issue 2, pp.23-32, Louisiana, USA, ISSN: 2349 - 9362, May-August 2020. (DOI:10.14445/23499362/IJIE-V712P105)
- Khaled Elbehiery, Hussam Elbehiery, "Comprehensive Unified Framework for Vehicle's Security Systems" The International Journal of Creative Research Thoughts (IJCRT), Volume 8, Issue 8, pp.18-28, New Delhi, India, ISSN: 2320-2882, August 2020. (DOI: 10.6084/m9.doi.one.IJCRT2008004)
- Khaled Elbehiery, Hussam Elbehiery, "Quantum Cloud" Seventh Sense Research Group®, International Journal of Computer Trends and Technology (IJCTT), Volume 68, Issue 7, pp.8-16, Louisiana, USA, P-ISSN: 2349-0829, E-ISSN: 2231-2803, July 2020. (DOI: 10.14445/22312803/IJCTT-V68I7P102)
- Khaled Elbehiery, Hussam Elbehiery, "Digital Transformation; Unified Card's Health Records Development" Seventh Sense Research Group®, International Journal of P2P Network Trends and Technology (IJPTT), Volume-10 Issue-4, pp.1-11, Louisiana, USA, P-ISSN: 2349-5766, E-ISSN: 2249-2615, July 2020. (DOI: 10.14445/22492615/IJPTT-V10I4P401)
- 8. *Khaled Elbehiery*, Hussam Elbehiery, "Coronavirus; Aftermath Technology Outburst" Seventh Sense Research Group®, International Journal of Electronics and Communication Engineering (IJECE), Volume 7, Issue 6, pp.1-12, Louisiana, USA, P-ISSN: 2349-9184, E-ISSN: 2348-8549, June 2020. (DOI: 10.14445/23488549/IJECE-V7I6P101)
- 9. *Khaled Elbehiery*, Hussam Elbehiery, "Millennium Robotics; Powered by Artificial Intelligence and Cloud Engineering" The International Organization of Scientific Research (IOSR), Volume 10, Issue 04, Series II, Pages PP 44-53, ISSN (e): 2250-3021 ISSN (p): 2278-8719, May 2020. (http://iosrjen.org/pages/volume10-issue4(series-2).html)
- 10. *Khaled Elbehiery*, Hussam Elbehiery, "Artificial Intelligent Bionics; Disability to Exceptional Ability" The International Journal of Engineering and Science (IJES), Volume 9, Issue 04, Series I, Pages PP 23-33, ISSN (e): 2319-1813 ISSN (p): 20-24-1805, April 2020. (http://www.theijes.com/Vol9-Issue4.html) (DOI:10.9790/1813-0904012333)
- 11. *Khaled Elbehiery*, Hussam Elbehiery, "Public Cloud: The Business Technology Platform" The International Organization of Scientific Research (IOSR), Volume 10, Issue 02, Series I, Pages PP 33-46, ISSN (e): 2250-3021 ISSN (p): 2278-8719, February 2020. (http://www.iosrjen.org/pages/volume10-issue2(series-1).html)
- 12. *Khaled Elbehiery*, Hussam Elbehiery, "Unicard; National Identity Evolution" The International Journal of Engineering and Science (IJES), Volume 9, Issue 01, Series II, Pages PP 84-102, ISSN (e): 2319-1813 ISSN (p): 23-19-1805, January 2020. (http://www.theijes.com/Vol9-Issue1.html) (DOI:10.9790/1813-09010284101)
- 13. *Khaled Elbehiery*, Hussam Elbehiery, "National Identity Evolution" IJISET International Journal of Innovative Science, Engineering & Technology, Vol. 6 Issue 10, pp.1-12, India, ISSN: 2348 7968, October 2019.
- 14. *Khaled Elbehiery*, Hussam Elbehiery, "Millennial National Security's Cornerstones 5G, Cloud Technology, and Artificial Intelligence" Seventh Sense Research Group®, International Journal of Electronics and Communication Engineering (IJECE), Volume 6, Issue 8, pp.44-54, Louisiana, USA, P-ISSN: 2349-9184, E-ISSN: 2348-8549, August 2019.(DOI: 10.14445/23488549/IJECE-V6I8P107)
- 15. *Khaled Elbehiery*, Hussam Elbehiery, "5G as a Service (5GaaS)" Seventh Sense Research Group®, International Journal of Electronics and Communication Engineering (IJECE), Volume 6, Issue 8, pp.22-30, Louisiana, USA, P-ISSN: 2349-9184, E-ISSN: 2348-8549, August 2019. (DOI: 10.14445/23488549/IJECE-V6I8P104)
- 16. *Khaled Elbehiery*, Hussam Elbehiery, "Business Stimulation Strategies of Cloud Computing" Seventh Sense Research Group®, International Journal of Computer Trends and Technology (IJCTT), Volume 67, Issue 5, pp.38-45, Louisiana, USA, P-ISSN: 2349-0829, E-ISSN: 2231-2803, May 2019. (DOI: 10.14445/22312803/IJCTT-V67I5P107)

- 17. Khaled Elbehiery, Hussam Elbehiery, "Virtual Cloud Computing; Future Development" International Journal of Engineering Research and Applications (IJERA), Volume 9, No. 4, Series IV, pp.1-7, India, ISSN: 2248-9622, April 2019. (DOI: 10.9790/9622-0904040107)
- 18. *Khaled Elbehiery*, Hussam Elbehiery, "Cloud Computing Technologies; Principals and Fundamentals" Seventh Sense Research Group®, International Journal of P2P Network Trends and Technology, Volume-9 Issue-2, pp.1-5, Louisiana, USA, P-ISSN: 2349-5766, E-ISSN: 2249-2615, April 2019. (DOI: 10.14445/22492615/IJPTT-V9I2P401)

Conferences

- Khaled Elbehiery, Hussam Elbehiery, "Overlay Robotized Datacenter System" ICICT 2023 (8th International Congress on Information and Communication Technology), Springer LNNS. ISSN: 2367-3370, Series: https://www.springer.com/series/15179 Lecture Notes in Networks and Systems ©Springer, London, UK, 20-23 February, 2023.
- Khaled Elbehiery, Hussam Elbehiery, "Architecture for Smart Cities' Sustainable Modular Houses", World Academy of Science, Engineering and Technology, International Journal of Urban and Civil Engineering, Vol:17, No:1, USA, January 2023. (https://waset.org/smart-cities-and-sustainable-urbanism-conference-in-january-2023-in-new-york)
- Khaled Elbehiery, Hussam Elbehiery, "Entrepreneur Universal Education System: Future Evolution", 23rd International Conference on Academic Learning and Administration in Higher Education © 2021 World Academy of Science, Engineering and Technology, New York, USA, January 28-29, 2021.
- 4. *Khaled Elbehiery*, Hussam Elbehiery, "Teleportation; Next Leap to Outer Space" The Second World Conference on Internet of Things: Digital Transformation Technology: Informatics Insights (ITAF 2020), Cairo, Egypt. Series ISSN 2367-3370, Softcover ISBN 978-981-16-2274-8, eBook ISBN 978-981-16-2275-5, Lecture Notes in Networks and Systems ©Springer Singapore, Edition Number: 1, pp 153-168, 26 & 27 January, 2021. (https://link.springer.com/chapter/10.1007/978-981-16-2275-5) (https://doi.org/10.1007/978-981-16-2275-5)
- 5. *Khaled Elbehiery*, Hussam Elbehiery, "Gravitational Energy; Aerospace's Future Technology" The Second World Conference on Internet of Things: Digital Transformation Technology: Informatics Insights (ITAF 2020), Cairo, Egypt. Series ISSN 2367-3370, Softcover ISBN 978-981-16-2274-8, eBook ISBN 978-981-16-2275-5, Lecture Notes in Networks and Systems ©Springer Singapore, Edition Number: 1, pp 3-27, 26 & 27 January, 2021. (https://link.springer.com/chapter/10.1007/978-981-16-2275-5_1) (https://doi.org/10.1007/978-981-16-2275-5)
- Khaled Elbehiery, Hussam Elbehiery, "Cloud Technology: Conquest of Commercial Space Business" The First World Conference on Internet of Things: Applications & Future (ITAF 2019), Cairo, Egypt, ISSN 2367-3370 ISSN 2367-3389 (electronic), ISBN 978-981-15-3074-6 ISBN 978-981-15-3075-3 (eBook), ©Springer Nature Singapore Pte Ltd. 2020, 14 & 15 October, 2019. (https://doi.org/10.1007/978-981-15-3075-3)
- 7. *Khaled Elbehiery*, "Comparison Among New Microprocessors Design" Annual Conference on Statistics, Computer Science and Operation Research. No. 34, pp. 1-17, December 1999, Cairo, Egypt.
- Khaled Elbehiery, "Study of the RISC Microprocessor" Annual Conference on Statistics, Computer Science and Operation Research. No. 33, pp. 33-44, November 1998, Cairo, Egypt.

LITERATURE PUBLICATIONS

- 1. Khaled Elbehiery, Hussam Elbehiery "The Twins Dedication & Inspiration" Amazon Books, ISBN: 978-1-80128-385-4, November, 2021.
- Khaled Elbehiery, Hussam Elbehiery "Genuine Bond and the road to Success (Arabic Edition)" Amazon Books, ISBN: 979-8-88992-243-8, June, 2022
- 3. Khaled Elbehiery, Hussam Elbehiery "The Twins for the Good of Mankind" Amazon Books, ISBN: 979-8-88862-101-1, February, 2023.
- 4. Khaled Elbehiery, Hussam Elbehiery "A Life Journey with Loyalty (Arabic Edition)" Amazon Books, ISBN: 979-8-88862-102-8, February, 2023.

REFEREES

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■ Prof. Dr. Hussam Elbehiery

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