

Experience Letter

My name is **Farouk A. K. Al-Fahaidy**, an associate professor in computer science & communications engineering with more than a decade of academic, research, and leadership experience. I earned the Ph.D. in electrical engineering (communications) from the Military Technical College, Cairo, Egypt in 2013, where I had also completed the MSc and BSc in 2010 and 2007 respectively with honors.

I have served in distinguished academic and research positions at leading institutions in Yemen including Sana'a university, Ibb university, University of science and technology, Emirates international university, and other universities.

My career reflects a strong commitment to research excellence, publications, and the supervision of innovative projects in the fields of machine learning, deep learning, cybersecurity, signals and image processing, and 4G/5G/6G wireless communications.

Research and publications

I have made significant scholarly contributions through extensive research and publications in high-rank journals and international conferences. My research output and current research works cover:

- **Artificial Intelligence & Healthcare Systems:** Deep neural network-based models for heart disease prediction and breast cancer diagnostics. Additionally, currently I'm supervising and working on tumor cancer identification and classifications and breast cancer prediction for other human's parts.
- **Cybersecurity & Intrusion Detection:** Intelligent anomaly-based intrusion detection systems in wireless sensor networks and secure image transmission.
- **Wireless Communications & Next-Generation Networks:** Studies on OFDMA, SC-FDMA, LTE, 5G, and 6G technologies with applications in broadband and IoT systems.
- **Image & Signal Processing:** Advanced encryption techniques, digital image processing, and intelligent control systems.

I have published in **admired journals** such as *EURASIP Journal on Image and Video Processing*, *Applied Computational Intelligence and Soft Computing Journal*, *Wireless Personal Communication Journal – Springer*, *American Journal of Electrical and Computer Engineering*, and others. Additionally, I have presented at IEEE and international conferences, serving as track chair, reviewer, and session chair.

Supervision & mentorship

I have supervised:

- **Up to 8 Master's theses** in AI, computer engineering, project management, and communications (including researches on breasts cancer prediction, brain tumor identification and classification, intelligent biometrics with blockchain, IRS-based mmWave communications for 6G, AI-based sign language translation, and delayed project analysis in telecom).
- **A pioneering dataset generation project** for imagined Arabic speech at Ibb university (2023–2024). We are still working in preparing research papers reflecting outcome from this project.
- **Over 50 undergraduate graduation projects** across IT, computer science, mechatronics, biomedical engineering, and communications. These include advanced projects such as autonomous quadcopters, intelligent robotics, IoT-based patient monitoring, social applications, and secure communication systems.
- **Four undergraduate graduation projects** were resulted in research paper outcomes that are published in high-impact journals with Quartiles (Q1 & Q2).

These supervision efforts demonstrate my dedication to **fostering young researchers and advancing applied knowledge** in diverse technology domains.

I have contributed as an external discussion to 1 PhD thesis and 3 M.Sc. theses.

Academic teaching & involvement

I have taught **graduate-level** courses including advanced networks, cryptography & security, advanced embedded systems design, and advanced software engineering in addition to **numerous undergraduate** courses in programming like Python, Java, C#, C++, artificial intelligence, secure programming, data structures, digital logic, computer organization & architecture, microprocessors & assembly, digital signals processing, digital communications, and digital image processing.

My teaching bridging the gap between theory and practice by integrating research findings and practical applications.

I have also been deeply engaged in **academic development and accreditation efforts**, including national accreditation and ABET-related initiatives, curriculum design for more than 10 programs in IT, cybersecurity, and engineering programs to numerous universities in Yemen. I have served on national and institutional committees to improve the quality of education in computing and engineering programs in Yemen, sharing in committees for preparing National Academic Reference Standards (**NARS**) and National Occupational Reference Standards (**NORS**) for academic and occupational computing and engineering programs in Yemen.

Professional service & memberships

I'm an **active contributor to academic communities** through:

- Reviewing for journals (*IET Communications, Springer WPN, EURASIP*).
- Participating in scientific and accreditation committees, including **ABET program initiation** in Yemen, national academic standards (NARS), national occupational standards (NORS), and curriculum design for B. Sc. programs in computer science, IT, cybersecurity, communication, biomedical, and mechatronics, M.Sc. programs in computing, computer and control engineering, IT, Mechatronics, and communications, and PhD. Program in computing.
- Membership in committees for **innovation competitions, research mapping, and program quality review** across Yemeni universities.
- Serving as IEEE Member (No. 92307041).

Closing statement of experience letters

Finally, considering my career path, which combines research, mentoring, and service. I have always strived to contribute and to expanding the frontiers of knowledge though simultaneously investing in the next generation of engineers and researchers in Yemen. Whether it's mentoring and assisting in publishing research, guiding a master's thesis, or development new software/application programs, my main goal is one: to make a meaningful impact. I consider myself a prolific researcher, a dedicated mentor, and an outstanding academic leader. I believe my contributions to research, project supervision, and scholarly publishing have had a profound impact on knowledge and development of academic program development in Yemen.

Despite all of these, I am not convinced of my research and academic outcomes due to the complex circumstances we live in Yemen, which caused a major interruption in my research outputs as we completely stopped research work in the period from 2013 to 2028, striving all tremendous effort to overcome the difficulties of life without monthly salaries to satisfy the family's requirements through working in university teaching for hourly wages.

CV

Farouk A. K. H. AL-Fahaidy, PhD

Assoc. Prof. in Computer & Communications Engineering

About

Farouk A. K. Al-Fahaidy is an associate professor of electrical engineering at Ibb University, Yemen, specializing in CS and communications. He earned his BSc, MSc, and PhD in electrical engineering from the Military Technical College in Cairo, Egypt in 2007, 2009, and 2013. His research interests include the practice of machine learning and deep learning to a variety of research areas such as images & signals processing, intelligent control systems, cybersecurity & intrusion detection systems, LTE, 5G & 6G wireless communications, wireless sensor networks (WSNs), and computer aided diagnoses (CAD) systems. He is currently the coordinator of M.Sc. program in computer engineering & control, electrical engineering department at sana'a university, associate professor member of computer science department at university of science & technology, and he is also the head of IT department, at emirates international university. Al-Fahaidy writes numerous research articles and participates in international conferences in the fields of WSNs security, image encryption, wireless communications, CAD systems based on machine learning & deep learning models.

Personal Information

- Associate Professor in Computer & Communications Engineering at the Department of Electrical Engineering (Computers & Communications), Ibb University, Ibb, Yemen.
- Head of the IT Department, at Emirates International University (EIU-Yemen), Sana'a, Yemen.
- Associate Professor Member of Computer Science Department (Cybersecurity & Networks Program), at University of Science & Technology.
- Coordinator of M.Sc. Program in Computer Engineering & Control, Dept. of Electrical Engineering (Computer Eng. & Control), Sana'a University, Sana'a, Yemen.
- **Nationality:** Yemeni
- **Mobile:** +967-783000036 or +967-777909815
- **Contact Email:** farouqakh@gmail.com; farouqakh@ibbuniv.edu.ye
- IEEE Member no. 92307041 (recently-idle)
- **Google Scholarship link:** <https://www.researchgate.net/profile/Farouk-Al-Fahaidy>
- **Research Gate link:** https://scholar.google.com.hk/citations?user=Iw_2mIAAAAAJ&hl=sy
- **Scopus ID & link:** [57918987600](https://www.scopus.com/authid/detail.url?authorId=57918987600), [Al-Fahaidy, Farouk Abduh Kamil - Author details - Scopus Preview](#)
- **ORCID:** [Farouk Al-Fahaidy \(0000-0001-8451-4241\) - ORCID](https://orcid.org/0000-0001-8451-4241)

Education

- Ph.D. in Electrical Engineering (Communications), Military Technical College (M.T.C), Feb. 2013. (with high honor).
 - Thesis title “Advanced Signal Processing Techniques for Broadband Communication”,
- M.Sc. in Electrical Engineering (Computers), Military Technical College (M.T.C), Jan. 2010. (with high honor).
 - Thesis title “Energy Aware Wireless Sensor Networks Routing Protocols”
- B.Sc. in Electrical Engineering (Computers), Military Technical College (M.T.C), July, 2007. (Excellent with high honor).

Academic Degrees

- **Head** of Information Technology department, Emirates International University (EIU-Yemen), Sana'a, Yemen, Since March. 2025.
- **Head** of the Department of Scientific Research & Publication, EIU-Yemen, Sana'a, Yemen, Since Dec. 2023 till March 2025.
- **Associate** professor member at Computer Science Department, Faculty of Computing, University of Science & Technology (UST-Yemen), Sana'a, Yemen, Since Jul. 2023. (Part-time) till now.
- **Coordinator** of the Program of Master of Science in Computer Engineering & Control, Electrical Engineering, Engineering College at Sana'a University, Sana'a, Yemen, Since Feb. 2021 till Now.
- **Dean** of Faculty of Engineering and Information Technology, at Arab Academic University for Science & Technology, Sana'a, Yemen, Since Aug. 2022 till Aug. 2023.
- **Associate professor** member and **Director** of Mechatronics Engineering Department, Faculty of Engineering & IT, EIU-Yemen, Sana'a, Yemen, Since March. 2020 till March 2025 (Part-time).
- **Assistant professor** member and **Director** of Mechatronics Engineering Department, Faculty of Engineering & IT, EIU-Yemen, Sana'a, Yemen, Since Oct. 2015 till Feb. 2020 (Part-time).
- **Associate professor** member and **Director** of Biomedical Engineering Department, Faculty of Engineering & IT, EIU-Yemen, Sana'a, Yemen, Since Jan. 2023 till March 2025 (Part-time).
- **Head** of Computer Engineering and IT Department, Dar-Elsalam University, Sana'a, Yemen, Since March. 2013 till Sep.2014.
- **Head** of the Electronics & Communications Engineering Department at Saba'a University, Sana'a, Yemen, Since Apr. 2013 till May. 2015.
- **Head** of the Electronics & Communications Engineering Department at University of Modern Science (UMS), Sana'a, Yemen, Since Sep. 2013 till Apr. 2014.
- **Supervisor** of many M.Sc. theses at Sana'a University & Higher Graduation Academy in Computer Science & IT.
- **External reviewer of a community discussion** for several Ph.D. and M.Sc. theses at Sana'a university and Higher Graduation Academy in Computer Science & IT.
- **Reviewer** to several International Journals
- **Track-chair, reviewer and session-chair** for several International Conferences.

Medallions

- Certificate of Outperforming in Master Degree, by the Minister of Defense, Egypt. July 2010.
- Medal of Committing of Second Class in Egypt Republic by the Presidents of Egypt on July. 2007 (B.Sc. Degree).
- Medal of the best Academic Year's Student at the MTC, by the Dean of MTC Sep. 2005.

Teaching Experience

Master Program's Courses:

No.	Course Title	Program/ University
1	Advanced Networks	M.Sc. in Computer Engineering & Control / Sana'a University and M.Sc. in IT, CS & IS Programs / Higher Graduation Academy - Sana'a, Yemen.
2	Advanced Cryptography & Information Security	M.Sc. in Computer Engineering & Control and M.Sc. in Communications and Networks at Sana'a University – Sana'a, Yemen.
3	Advanced Software Engineering	M.Sc. in Computer Science & IT / University of Science and Technology – Sana'a, Yemen.
4	Advanced Embedded Real-Time Systems Design	M.Sc. in Computer Engineering & Control and M.Sc. in Mechatronics Engineering at Sana'a University – Sana'a, Yemen.
5	Applied Deep learning	M.Sc. in Computer Engineering & Control at Sana'a University – Sana'a, Yemen.

B.Sc. Programs Courses:

No.	Course Title	Program/University
1	Computer Programming using C# (Console + Windows Applications)	IT programs Dar-Elsalam & Saba'a Universities
2	Artificial Intelligence	Biomedical engineering, at Sana'a University and IT program at Al-Nassir University
3	Secure Programming	Cybersecurity program, computer science department, computing college, at University of Science and Technology
4	Data Structures & Algorithms	Cybersecurity, IT, software engineering, computer science, and IS programs, computing college, at University of Science and Technology, and computer engineering program at Sana'a University

5	Advanced Programming using JAVA	Cybersecurity, IT, computer science, software engineering, and IS programs, computing college, at University of Science and Technology, and computer science programs at Sana'a and Ibb Universities, and mechatronics program, at EIU University
6	Programming II (OOP using C++)	Sana'a, Ibb & EIU Universities
7	Computation Theory (I) and (II)	Computing programs at Sana'a & Ibb University
8	Data Communications & Computer Networks	IT and communication programs at Sabaa, Alnassir & Azal Universities
9	Digital Image Processing	Communication and mechatronics engineering programs at EIU-Yemen and Saba'a Universities
10	Digital Logic Circuits I & II	Sana'a, Ibb & Saba'a, EIU-Yemen Universities
11	Industrial Networks	Sana'a & EIU-Yemen Universities
12	Digital Electronics	Mechatronic engineering at Sana'a, Al-Rasheed, and Saba'a Universities
13	Analog & Digital Signals and Systems	Sana'a, EIU-Yemen & Sabaa Universities
14	Embedded Systems & Interfacing	Computer & control, mechatronics, communication & networks, biomedical engineering at Sana'a, computer engineering at Ibb university, and mechatronic engineering at EIU-Yemen & Saba'a Universities.
15	Microprocessors and Microcontrollers	Computing programs at Sana'a, Ibb & EIU Universities
16	Microprocessors Based Systems (II)	Computing and mechatronics programs at Sana'a, Ibb & EIU-Yemen Universities
17	Digital System Design	Computing programs at Sana'a, Ibb & Saba'a, EIU Universities
18	Problem Solving & Programming	Cybersecurity, IT, software engineering, computer science, and IS programs, computing college, at University of Science and Technology
19	Discrete Mathematics	Cybersecurity and Computing programs at UST and Ibb University
20	Computer Architecture and Assembly	Cybersecurity, computer science, and software engineering programs, computing college, at University of Science and Technology and computer science at Ibb University
21	Network & Information Security	IT program at Alnassir University
22	Programming I (C++)	Computing and Biomedical programs, at Sana'a & EIU Universities

23	Advanced Digital System Design with VHDL	Computer engineering program, Sana'a university and mechatronics engineering program, EIU-Yemen
24	Computer Organizations & Architectures (II)	Computing programs at Sana'a & Ibb Universities
25	Database Systems	Computing programs at Sana'a & Dar Elsalam Universities
26	Advanced Data Base Systems	Computing programs at Sana'a & Dar Elsalam Universities
27	Software Engineering	Computing program at Ibb University
28	Operating Systems	Computing program at Sana'a University
29	Electronic (I), (II), and (III)	Communication programs at Saba'a University

Publications

Journals

- “**simplified deep neural network models for cardiovascular disease classification,**” **Applied Computational Intelligence and Soft Computing, Wiley,** 28 November 2025, <https://doi.org/10.1155/acis/8709881>
- "**Anomaly-based Intrusion Detection System** in Wireless Sensor Networks using Machine Learning Algorithms", **Applied Computational Intelligence and Soft Computing, Sep. 2024,** <https://doi.org/10.1155/2024/2625922>.
- "**Secure Image Transmission of Encrypted Images** Through LTE Communication", **EURASIP Journal on Image and Video Processing, 2024:3, Jan. 2024,** <https://doi.org/10.1186/s13640-024-00619-2>.
- "**A Diagnostic Model of Breast Cancer Based on Digital Mammogram Images Using Machine Learning Techniques**", **Applied Computational Intelligence and Soft Computing Journal, Sep. 20.2022,** [A Diagnostic Model of Breast Cancer Based on Digital Mammogram Images Using Machine Learning Techniques - Al-Fahaidy - 2022 - Applied Computational Intelligence and Soft Computing - Wiley Online Library](https://doi.org/10.1155/2022/2625922).
- "**Design and Implementation of an Eye-Controlled Self-Driving Wheelchair**", **American Journal of Scientific Research and Essays, May .2021, 2021 6:3,** [Design and Implementation of an Eye-Controlled Self-Driving Wheelchair - eSciPub Journals](https://doi.org/10.1155/2021/2625922).
- "**Phase Modulated OFDMA System, Study and Investigation**", **AJCSA - eSciPub Journals, May. 2019,** [Phase Modulated OFDMA System, Study and Investigations - eSciPub Journals](https://doi.org/10.1155/2019/2625922).
- "**DFT-Based OFDMA System with Phase Modulation for Broadband Communication**", **American Journal of Electrical and Computer Engineering, Vol. 3, No. 1, Jun. 2019, pp.1-9,** [DFT-Based OFDMA System with Phase Modulation for Broadband Communication, American Journal of Electrical and Computer Engineering, Science Publishing Group](https://doi.org/10.1155/2019/2625922).
- “**Discrete Sine Transform Based OFDMA System for Wireless Broadband Communications**”, **American Association for Science and Technology, AASCIT Communications, Vol. Jul. 2019,** [AASCIT - Journal - All Issues](https://doi.org/10.1155/2019/2625922).

- "Wireless Image Transmission over Frequency Selective Channel Using Recent OFDMA Systems", AJCCC, March. 2018, [AASCIT - Journal - All Issues](#), [Wireless Image Transmission over Frequency Selective... - من الباحث العلمي من Google](#).
- "Performance Evaluation of SC-FDMA Systems using Wireless Images", AJCSA journal, Sep. 2017, [Performance Evaluation of SC-FDMA Systems Using Wireless Images - eSciPub Journals](#), [Performance Evaluation of SC-FDMA Systems using Wireless... - من الباحث العلمي من Google](#).
- "Analysis of a new Proposal for WiMax Installation Sites for Maximum Safety and Minimum Hazardous Radiation on the Population of Sana'a City", IJEC Journal 2015, ISSN 2321-5984, [\(PDF\) Analysis of a new proposal for WiMax installation sites for maximum safety and minimum hazardous radiation on the population of Sana'a City \(researchgate.net\)](#).
- "A New Transceiver Scheme for OFDMA System Based on Discrete Cosine Transform and Phase Modulation", WPN Springer, 2012, [A New Transceiver Scheme for OFDMA System Based on Discrete Cosine Transform and Phase Modulation | Wireless Personal Communications \(springer.com\)](#).
- "Peak to Average Power Ratio Reduction for SC-FDMA using distortion reduction Algorithm", IJRCS, 2011, [Peak-to-Average Power Ratio Reduction for SC- FDMA using Distortion Reduction Algorithm | Request PDF \(researchgate.net\)](#).

Conferences

- "Anomaly-Based Intrusion Detection System in WSN using DNN Algorithm," 2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI), Sana'a, Yemen, 2024, pp. 1-8, doi: 10.1109/ICETI63946.2024.10777266, [Anomaly-Based Intrusion Detection System in WSN using DNN Algorithm | IEEE Conference Publication | IEEE Xplore](#).
- "Assessment of IT Governance Maturity Level for Yemeni Telecom Sector Using COBIT 2019 Framework," 2024 1st International Conference on Emerging Technologies for Dependable Internet of Things (ICETI), Sana'a, Yemen, 2024, pp. 1-7, doi: 10.1109/ICETI63946.2024.10777209, [Assessment of IT Governance Maturity Level for Yemeni Telecom Sector Using COBIT 2019 Framework006B | IEEE Conference Publication | IEEE Xplore](#).
- "An Energy Efficient Routing Strategy for Wireless Sensor Networks", IEEE, MELECON-2012-Conf, Tunis, March. 2012, [ieeexplore.ieee.org/document/6196483](#), [An energy efficient routing strategy for Wireless Sensor Networks \(infona.pl\)](#).
- "Constant Envelope Single-Carrier Frequency Division Multiple Access", IECE8 Conf., MTC, Cairo, 2012, [https://iceeng.journals.ekb.eg/article_30802_cc950cc0b277099749a32acc2bc6e7cd.pdf](#).
- "A New Single Carrier Frequency Division Multiple Access Based on Discrete Cosine Transform Spread OFDMA", IECE8 Conf., MTC, Cairo, 2012, [SCiNiTO - Academic Resource Hub](#).
- "Performance Enhancement of OFDM System", SDWIC, GU, Bahrain, 2012, [\(PDF\) Performance Enhancement of OFDM System \(researchgate.net\)](#).
- "Peak-to-Average Power Ratio Reduction for Single Carrier-Frequency Division Multiple Access using Repeated Clipping and Filtering", ASAT13 Conf., MTC, Cairo, 2011, [\(PDF\) Peak-to-Average Power Ratio Reduction for Single Carrier- Frequency Division Multiple Access using Repeated Clipping and Filtering \(researchgate.net\)](#), [asat.journals.ekb.eg](#).

- “Peak-to-Average Power Ratio Reduction of Uplink Broadband Transmission Systems using Different Reduction Algorithms”, ASAT13 Conf., MTC, Cairo, 2011, [Peak-to-Average Power Ratio Reduction of Uplink Broadband Transmission Systems using Different Reduction Algorithms | Request PDF \(researchgate.net\)](#).

Papers under review/preparation

- DNN-based Model for Heart Failure Monitoring".
- Channel Estimation in IRS-based mmWave Massive-MIMO communications using non-Complexed-values and New Deep Residual Convolutional Neural Network.
- Review research paper on D2D communications challenges, techniques, and new trends.
- Evaluation of Yolo for sign language translation.
- DNN models and Generative models for Tumor classification and identifications.
- A GUI-based Software Application for Heart Disease (HD) Prediction and Heart Failure (HF) Condition Monitoring based on DNNs-based Models and Implemented with Self-Updating of HD & HF Datasets of New Patients".

Books

Completing the following Books' Summary to World is Read Center, K.S.A

- Gareth Halfacree, 2021, "The Official Raspberry Pi Beginner's Guide" 4th Ed., Raspberry Pi Trading Ltd, Maurice Wilkes Building, St. John's Innovation Park, Cowley Road, Cambridge, CB4 0DS, [\(PDF\) The Official Raspberry Pi Beginner's Guide Book Summary of the book entitled "How to use your new computer" Author Name: Gareth Halfacree Gareth Halfacree \(researchgate.net\)](#).
- Designing Embedded Systems with PIC Microcontrollers 2nd ed - T. Wilmshurst (Newnes, 2010), [\(PDF\) Summary Book of Designing Embedded Systems with PIC Microcontrollers: Principles and Applications, by Tim Wilmshurst \(researchgate.net\)](#)
- Computer Organization and Design - Patterson, David A2014, [\(PDF\) Summary book of the book entitled Computer Organization and Design: The Hardware Software Interface Author\(s\) Names David Patterson John L. Hennessy \(researchgate.net\)](#).
- M. Morris Mano & Michael D. Ciletti, 2017, Digital Design with an Introduction to the Verilog HDL, 6th Ed. Pearson, [\(PDF\) Book summary of the book entitled Digital Design: With an Introduction to the Verilog HDL, VHDL, and System Verilog Author\(s\) Names M. Morris Mano & Michael D. Ciletti \(researchgate.net\)](#)

Note: all of these summary books were done from Jan. 2022 to March. 2022, and the whole Project is Suspended.

Peer-Reviewer/Committee member

- IET-Communications journal,
- IET-Radar& Sonar journal,
- JOE journal,
- SN Computer Science journal,
- WPN-Springer journal,
- EURASIP-Springer journal,
- Reviewer at eSmarTA-2025, IEEE-conference.
- Chair of a Session in eSmarTA2024 IEEE-conference and reviewer.
- eSmarTA2023 IEEE-conference, reviewer.
- eSmarTA2022 IEEE-conference, committee member and reviewer.
- A track chair, PC member and reviewer at ITSS-IoE 2021 IEEE-conference.

Projects

- Completing as the main supervisor of the project for the generation of imagined speech dataset for Arabic language words, at electrical engineering department (computer engineering), Ibb University, 2023-2024.
- Tel-Yemen Conference on IPv4 to IPv6 migration, Sana'a, Yemen, 2016. "Suspended project".
- Development & Replacement of the Tactical Console for the Operations Rooms in the Tactical Training Simulator for the Navy Units Commanders, Egyptian Armed Forces, 2006-2007.

Other Research & Academic Activities:

- Sharing as an external member of a discussion committee for discussion of a PhD. thesis, at Computing college, Sana'a University, Sanaa, Yemen, May. 2025.
- Sharing as an external member of a discussion committee for discussion of a master. thesis, at Computing college, Sana'a University, Sanaa, Yemen, "It will be carried during Sep. 2025".
- Sharing as an external member of a discussion committee for discussion of a Master thesis, at the Higher Graduation Academy, Sanaa, Yemen, Feb. 2022.
- Currently, I'm a supervisor to five master theses in IT and Communications including: -
 - A Master Thesis in IT, entitled "Intelligent Biometrics-based Identification System using Deep Learning Machines for Blockchain", at Higher Graduation Academy, Sanaa, Yemen.
 - A Master Thesis in Communications, entitled, "Channel Estimation of mmWave Communication based on Intelligent Reflecting Surfaces (IRS) for 6-G Wireless Communications", Sanaa University, Sanaa, Yemen.
 - A Master Thesis in in Project Management studying "the implementation of AI tools for telecommunication Projects, case study: Yemeni telecommunication corporations".
 - Co-supervisor of a Master Thesis in Computer Engineering & Control Master Program, in the Field of "Development of AI-based System for Sign Signals Language Translation to Arabic Language", Sanaa University, Sanaa, Yemen.
 - Co-supervisor of M.S. in Project Management, "studying the Delayed Projects Implemented by Tel-Yemen".
- Supervisor of more than 15 Graduation projects in cybersecurity, computer science and engineering, IT, and Biomedical Engineering (some are included: Multiple image encryption, E-learning Application, Design and development of A Distant-Learning Application, Design & Development of Social Application for the Computing College, Database applications for Markets, and heart disease & Heart Failure Prediction using Deep Learning, ... etc.).
- More than 25-Graduate projects in Mechatronics Eng. (some are included: Human Object Tracking and Targeting System, Autonomous Quadcopter, HIMO Robot, Design & Implementation of A Production line for Recycled Paper, Design & Implementation of HexaCopter, Design and implementation of Brain signals-based Controlled Leg,

Design & Implementation of Intensive Care Unit based System for Remote Patient Monitoring and Treatment based on Brain & Eye Signals and IoT).

- About 10 graduate projects in Communications (some are included: 3rd, 4th, 5th & 6th Generations including CDMA system model, LTE Planning and Simulation, Cognitive Radio, Defensive Attacks in Beyond 5G, 6G Wireless Mobile Communications based on Intelligent Reflecting Surfaces, and NOMA).

Interesting in teaching the following Graduate Courses: -

- Advanced Computer Architecture,
- Neural Networks,
- Applied Machine/Deep Learning,
- Advanced Signal Processing.
- Advanced Probability & Statistics

Workshop & Conferences Membership/Participation

Membership

- Member of committee of the Yemen Competition for Innovative Project-2024.
- Member of committee for Preparing the Research Precedencies & Research Map in Yemen, During Year of 2023, in the field of Computing, IT, A.I, Communications & Reverse Engineering.
- Member of the eSmarTA2022 Conference Committee which will be held at Ibb University, Ibb, Yemen on Nov.2022.
- Participant in **ABET** workshop for the preparation & the Development of Engineering Programs for ABET Accred. at EIU, 2022.
- Member of Scientific Committee for the Development of 4-udergraduate programs: Cyber-Security & Networks, computer science, IT, and Software Engineering programs, at the faculty of Computers, University of Science & Technology, Sana'a-Yemen on 15 Jun. 2021.
- Member of a Scientific Committee for Reviewing the Graduate Programs in the faculty of computer & IT at University of Science & Technology, Sanaa-Yemen on 14 Jun.2021.
- Member of a Scientific Committee of Mechatronics' Engineering Program Specification and Description, Al-Jeel Al-Gadeed University, since Feb. 2021.
- Member of a scientific committee for the Evolution of Computer Engineering & Communication Engineering Programs, Electrical Engineering Dep. Engineering College, Ibb University, 2020.
- Member of a scientific committee for Biomedical Engineering Program Specification at Sanaa University, Sanaa, Yemen, 2020.
- Member of committee of **NARS** Workshop for Preparing National Academic Reference Standards to Engineering Colleges and Programs in Yemen, At Academic Certification Council, Ministry of higher education, Sanaa, Yemen, Apr.2018.
- Member of a scientific committee for the Evolution of Computer Engineering Program, Electrical Engineering Dep. Engineering College, Sanaa University,
- Member of a scientific committee for Course Specifications to 8-Courses and Revising 18-courses in Computer Eng. Program, Engineering College, Sanaa University and Appointed as a Program's Quality Review.

- Member of a scientific committee for courses' Specifications to the Master of science Program in Computer and Control Engineering, Electrical Eng. Dep. Engineering College, at Sanaa University, Sanaa-Yemen, on from Feb.2021 to May. 2021.
- Member of a scientific committee for the Improvement of Mechatronics Eng. Dept. Program, Sana'a Univ. Mar. 2019.
- Member of a scientific committee for Quality Evaluation and Strategy Workshop of Emirates International University-Yemen, Sanaa, Yemen, Mar.2019.
- Member of a scientific committee for the Strategy Workshop for Engineering & IT College, at Emirates International University-Yemen, Sanaa, Yemen, May.2019.
- Member of a scientific committee for Mechatronics' Engineering Program Specification and Description, EIU-Yemen, Sanaa, Yemen, May. 2019.
- Member of a scientific committee for Mechatronics' Engineering Program Specification and Description, Al-Rasheed University, Sanaa, Yemen, May. 2020.
- Member of a scientific committee for Preparing Master Course Specification for Applied Cryptography to IT Master Program at EIU-Yemen, Sanaa, Yemen, 2021.
- Member of a scientific committee for Preparing Master Course Specification for Cryptography & Network Security, Advanced Embedded Systems Design and Advanced Networking to Computer Engineering & Control, Master Program at Sanaa University 2021.
- Member of a scientific committee for Preparing courses' specification to the Logic circuits, Advanced Digital System Design, Microprocessor-based Systems, and Embedded Systems courses to the Mechatronics Eng. Dept. at Emirates International University-Yemen, Sanaa, Yemen, Jun-Jul. 2019.
- Member of a committee revising about 10-courses specified to Mechatronics Eng. Program at Emirates International University-Yemen, Sana'a, Yemen.
- Member of a committee for preparing course specifications to 17th courses to Mechatronics & Computer Programs at Sana'a University- 2020.
- Member of a committee for revising 25 Courses to Computer Engineering, Sana'a University 2020.
- Member of a committee for preparing and Introducing specification for the Logic circuits, Digital Electronics Circuits, Microprocessor-based Systems, Data Acquisition Systems, Industrial Networks, Analog & Digital Signal Processing, and Embedded Systems courses to the Mechatronics Eng. Program. at Sabaa Univ., Sana'a, Yemen, Jun-Jul. 2019.
- Member of a committee for revising specification sheet to 9-courses in Mechatronics Eng. Program. at Sabaa Univ., Sana'a, Yemen, Sep. 2019.
- Member of a committee for preparing courses specifications for the Operating Systems, Software Engineering, Data Communication and Networking, Multimedia Technology, System Integration and Administration, and IT Project managements Courses to IT Dept. at Malaysia University, Ibb, Yemen. 2018.
- Member of a scientific committee for preparing of learning study plans for Communication Engineering Program, at Sabaa University, Sanaa, Yemen 2014.
- Member of a scientific committee for the preparation of the Electronics and Communications Engineering program study plan, at the Modern Science University, Sanaa, Yemen, 2014.
- Member of a scientific committee for the development of the study plan of computer Engineering and IT program, Dar El-salam University, Sanaa, Yemen, 2013.

Sharing/Participation:

- Participating as a trainee in the Training Workshop for the Academic Programs External Evaluators, May. 28 to Jun. 2. 2022, Council for Academic Accreditation and Quality Assurance, Sana'a, Yemen.
- Sharing as a Program Chair/Co-chairs Committee (Vice-chair) in the track of Intelligent Technologies for Internet of Everything in the Conference of ITSS-IoE 2021- 1-2 Nov. 2021.
- Sharing as a Coordinator for the preparation & specification of the Master Program in Computer Engineering & Control at Sanaa University, Sanaa, Yemen, Feb. 2021 to now.
- Executer of the Python Programming Education to engineers & IT's under the request of the corporation of Innovative, Sanaa, Yemen, Feb.2021.
- Sharing and Presentation in IECE8 Conference, at the Military Engineering College, Cairo, Egypt, May 2012.
- Sharing and Presentation in ASAT11, ASAT12, and ASAT13 Conferences, at the Military Engineering College, Cairo, Egypt, May 2007, 2009, and 2011 respectively.
- Sharing in IEEE-Conference, at Hammamat ELYASMIN, Tunis, 2012 by a presented paper in WSNs Routing Protocols.

Personal Skills

- Online study of a course in Deep learning with Keras at Udacity cite, 2022.
- Online Certificates in Introduction to Deep Learning Course, High-Council of Education-Egypt, Maharah Technology (Egyptian Gov. Web site), 2020.
- Online Certificates in Applied Deep Learning Course, High-Council of Education-Egypt, Maharah Technology (Egyptian Gov. Web site), 2020.
- Certificate in Oracle Development from the ITI, Cairo, Egypt.
- Certificate in CCNA from the HIIT, Cairo University, Cairo, Egypt, Aug. 2007.
- Certificate in MCSA from the HIIT, Cairo University, Cairo, Egypt, Jul. 2007.
- Efficient in several Programming Languages like, JAVA, Python, C++ & C#, and Microsoft Office.
- Native: Arabic Language, and Fluent in English Language,

References

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- Prof. Khalil AL-Wajeih, Dhamar University, Yemen, currently the President of AL-Razzi University, Email: khalilwagih@gmail.com.
- Assoc. Prof. Hefdhallah Sakran, Ibb University, now in scholarship at Germany, Email: hefdh_sakran@yahoo.com.