

Faculty C.V.

1. **Name:**

Ali A. Behiry

2. **Academic Rank**

Full-Time Instructional Assistant – Engineering Lab

3. **Degrees**

Master of Science (MSc) in Computer Engineering – Kuwait University (2019)

Bachelor of Engineering (BEng) in Computer Engineering – American University of Kuwait (2015)

4. **Service at this Institution**

6 years – Appointed 5/01/2020

5. **Professional Experience**

Lab Instructor/Lab Coordinator - Kuwait University (2016-2019)

Systems Engineer – Zak Solutions (Nov 2015 – Jan 2016)

Part-time peer tutor – American University of Kuwait (2012-2014)

6. **Consulting Experience** *N/A*

7. **Professional Registration** *N/A*

8. **Publications**

a) Refereed Journals

Behiry, A. A. M. R., Dafar, T., Hassan, A. E. M., Hassan, F., AlGohary, A., & Khanafer, M. (2025). Nu—A Marine Life Monitoring and Exploration Submarine System. *Technologies*, 13(1), 41. <https://doi.org/10.3390/technologies13010041>

Kandil, A.; Khanafer, M.; Darwiche, A.; Kassem, R.; Matook, F.; Younis, A.; Badran, H.; Bin-Jassem, M.; Ahmed, O.; **Behiry, A.**; et al. A Machine-Learning-Based and IoT-Enabled Robot Swarm System for Pipeline Crack Detection. *IoT* 2024, 5, 951-969. <https://doi.org/10.3390/iot5040043>

M. K. Awad, **A. A. M. R. Behiry**, M. W. Baidas, “User association for load balancing in coordinated multipoint green HetNets: A Quasi-Newton-based approach”, *Physical Communication*, Volume 49, 2021, 101464, ISSN 1874-4907, <https://doi.org/10.1016/j.phycom.2021.101464>.

M. K. Awad, **A. A. M. R. Behiry** and E. A. Alrashed, "A Robust and Resilient Load Balancing Framework for SoftRAN-Based HetNets With Hybrid Energy Supplies," in *IEEE Transactions on Network and Service Management*, vol. 17, no. 3, pp. 1403-1417, Sept. 2020, doi: 10.1109/TNSM.2020.2991339.

S. Abed, **A. A. M. R. Behiry**, I. Ahmad. Error metrics determination in functionally approximated circuits using SAT solvers. 2020. PLOS ONE 15(1): e0227745. <https://doi.org/10.1371/journal.pone.0227745>

b) Conferences

A. Kandil et al., "Pipeline Leak Identification Emergency Robot Swarm (PLIERS)," 2023 20th Annual IEEE International Conference on Sensing, Communication, and Networking (SECON), Madrid, Spain, 2023, pp. 381-383, doi: 10.1109/SECON58729.2023.10287512.

A. Behiry, A. Imdoukh, A. AlAteyah, F. Badreddine, R. AlFar and A. Rezk, "Towards a Selfmanaged and Gamified Laboratory Experience in Undergraduate Engineering Education," 2023 IEEE Global Engineering Education Conference (EDUCON), Kuwait, Kuwait, 2023, pp. 1-5, doi: 10.1109/EDUCON54358.2023.10125169.

A. Al-Kandari, A. -Z. AlMuzaini, A. Al-Humaidan, H. Al-Jouhari, S. Esmacili and **A. Behiry**, "VGRIP: Virtual Reality in a GRIP," *2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)*, 2022, pp. 1-5, doi: 10.1109/HORA55278.2022.9799929.

M. K. Awad and **A. A. M. R. Behiry**, "A Quasi-Newton-based Approach to Load Balancing in Coordinated MultiPoint (CoMP) Green HetNets," *2019 Seventh International Conference on Digital Information Processing and Communications (ICDIPC)*, Trabzon, Turkey, 2019, pp. 72-77, doi: 10.1109/ICDIPC.2019.8723867.

M. Imdoukh, Y. Khalil, **A. Rady** and M. Khanafer, "Zealth: ZigBee-Based WBAN System for e-Health Monitoring," 2017 9th IEEE-GCC Conference and Exhibition (GCCCE), Manama, 2017, pp. 1-9, doi: 10.1109/IEEEGCC.2017.8448094.

9. **Membership in Professional Societies**

IEEE Member – 2 years

10. **Patents, Honors and awards**

Kuwait University Excellence Scholarship (2016)

American University of Kuwait Academic Scholarship (2011)

11. **Courses taught**

a) **Academic Courses**

Kuwait University:

Fall 2016:

ENG200L - Programming for Engineers Lab (2 sections): 2 hours per week

CPE201L - Object Oriented Programming Lab (1 section): 2 hours per week

Spring 2016 - Spring 2019:

ENG200L - Programming for Engineers Lab (1-2 sections): 2 hours per week
CPE456L - Networking 2 Lab (2-3 sections): 2 hours per week

American University of Kuwait:

Spring 2020:

ELEG320L (1 section): 3 hours per week
ELEG220L: (2 sections): 3 hours per week
ELEG270L: (1 section): 3 hours per week
CSIS120-Lab (1 section): 2 hours per week

Fall 2020:

ELEG320L (1 section): 3 hours per week
ELEG220L: (1 section): 3 hours per week
ELEG270L: (1 section): 3 hours per week
CSIS130-Lab (2 sections): 2 hours per week

Spring 2021:

CPEG303L: (1 section): 3 hours per week
CPEG350L: (1 section): 3 hours per week
ELEG270L: (1 section): 3 hours per week
ELEG220L: (2 sections): 3 hours per week

Summer 2021:

CPEG201L: (1 section): 1.25 hours daily

Fall 2021:

CPEG330L: (1 section): 3 hours per week
CPEG340L: (1 section): 3 hours per week
ELEG270L: (1 section): 3 hours per week
ELEG220L: (1 section): 3 hours per week

Spring 2022:

CSIS101: (1 section): 2.5 hours per week
CPEG350L: (1 section): 3 hours per week
ELEG270L: (1 section): 3 hours per week
ELEG220L: (2 sections): 3 hours per week

Summer 2022:

CPEG201L: (1 section): 1.25 hours daily
CPEG331L: (1 section): 1.25 hours daily

Fall 2022:

CPEG340L: (2 sections): 3 hours per week
CSIS101: (2 sections): 2.5 hours per week
CSIS130L: (2 sections): 2 hours per week

Spring 2023:

ELEG220L: (1 section): 3 hours per week
CSIS130L: (1 section): 2 hours per week
CSIS120L: (3 sections): 2 hours per week

Summer 2023:

CPEG201L: (1 section): 1 hour daily
ELEG270L: (2 sections): 1 hour daily

Fall 2023:

CPEG340L: (1 section): 3 hours per week
CSIS120L: (1 section): 2 hours per week
CSIS130L: (3 sections): 2 hours per week
ELEG320L: (1 section): 3 hours per week

Spring 2024:

CSIS101: (1 section): 2.5 hours per week
CSIS130L: (1 section): 2 hours per week
CSIS120L: (3 sections): 2 hours per week

Fall 2024:

CPEG340L: (1 section): 3 hours per week
CSIS130L: (3 sections): 2 hours per week
ELEG320L: (1 section): 3 hours per week

Spring 2025:

CPEG340L: (1 section): 3 hours per week
CSIS 101: (1 section): 3 hours per week
CSIS130L: (1 section): 2 hours per week
CPEG210L: (1 section): 3 hours per week

Fall 2025:

CSIS 120L: (2 sections): 2 hours per week
CSIS130L: (1 section): 2 hours per week
ELEG320L: (1 section): 3 hours per week
CPEG340L: (2 sections): 3 hours per week

Spring 2026:

CSIS130L: (1 section): 2 hours per week
ELEG270L: (2 sections): 3 hours per week
CPEG201L: (1 section): 3 hours per week
CPEG210L: (1 section): 3 hours per week
CSIS101: Independent Study

12. **Other Duties**

- Curriculum and Assessment Committee – Member (Spring 2026 – Present)
- Academic Quality Committee – Member (Fall 2021-Fall 2023)
- Resource Management and Planning Committee – Member (Fall 2021-Fall 2024)

13. **Research**

N/A

14. **Participation in Specific Programs**

- Attended: Workshop titled “Teaching Future Skills”, AUK, 2022.
- Attended: Workshop titled “CDIO Philosophy and the Aston Way”, AUK, 2022.
- Delivered: “What can I do with my major” Workshop. CEAS Guest Speaker, AUK, 2022.
- Attended: Workshop titled: “Getting and Keeping Students Engaged”, Online, 2021.
- Attended: Workshop titled: “From Classroom to Industry: Multidisciplinary Project-Based Learning with 3D Printing Session by Dr. Belal Gharaibeh
- Attended: Workshop titled: Transformative Learning Workshop: Dr. Saouma Boujaoude
- Attended: Workshop titled: Electromagnetic Fields and Waves in Geophysical and Medical Applications by Dr. Fridon Shubitidze
- Attended: Workshop titled: Grant Writing Session by Dr. Fridon Shubitidze
- Attended: Workshop titled “Beyond the Lecture: A practical guide to recognizing signs, offering support, setting boundaries, and referring effectively”, AUK, 2026.
- Attended: Workshop titled: “Codex On Campus”, Open AI Academy Online, 2026.
- Attended: Webinar titled: “Algorithm Design to Hardware Deployment on FPGAs/SoCs using MATLAB and Simulink”, Dr. Parful Pai.