Faculty C.V.

1. Name and Date of Birth

Amal Alateyah, November 7th, 1990

2. Academic Rank

Instructor (Full-time)

3. Degrees

- Master of Science (M.S) in Computer Engineering, The George Washington University, Washington, DC (May 2015)
- Bachelor of Science (B.Sc.) in Computer Engineering, The University of Houston, Houston, TX (December 2013)

4. Service at this Institution

Lab Instructor, March 2018-Present

5. Professional Experience

- Computer Engineer, Ministry of Education, Kuwait, (November 2015 - February 2018)
- Park/ Tour Guide- Al Shaheed Park, Kuwait, (April - November 2016)

6. Professional Registration

- IEEE, Member
- Kuwait Society of Engineers, Member

7. Publications

- Behiry, A., Imdoukh, A., **Alateyah, A**., Badreddine, F., AlFar, R., & Rezk, A. (2023). *Towards a self-managed and gamified laboratory experience in undergraduate engineering education.* In *2023 IEEE Global Engineering Education Conference (EDUCON)* (pp. 1-5). https://doi.org/10.1109/EDUCON54358.2023.10125169
- Ali, B., Thahir, D., Al-Karmi, K., Esmaeili, S., & **Alateyah, A.** (2022). *Pothole Patrol: An autonomous vehicle for locating and repairing potholes.* In *2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)* (pp. 1-6). https://doi.org/10.1109/HORA55278.2022.9799954
- Aleidan, A., Almajedi, A., Alqattan, A., Alramezi, F., Esmaeili, S., & **Alateyah, A.** (2022). *Design and implementation of an educational suit.* In *2022 IEEE Integrated STEM Education Conference (ISEC)* (pp. 205-208). https://doi.org/10.1109/ISEC54952.2022.10025081

8. Honors and Awards

- Five Years of Service Award, American University of Kuwait (2023)
- Dean's List for all semesters during the academic studies for a Bachelor of Science degree in Computer Engineering at the University of Houston, USA (2010-2013)
- Bronze Medal in the Arab Olympics of Science, Jordan (2008)
- Gold Medal in Kuwait Olympics of Science, Kuwait (2008)

- Best Graphic Design, Awj for Art Production, Kuwait (2007)
- Al-Sabah Award for top Kuwaiti websites, Kuwait (2006)
- Ghiras Electro Award for best poster, first place, Kuwait (2005)

9. Courses Taught, Teaching Activities, and Advising Experience

a. Courses Taught at AUK:

The courses taught at AUK are listed below:

Semester	Course Code	Course Title	# of Students
Fall 2023	ELEG 320L-02	Signals and Systems Laboratory	24
	ELEG 320L-03	Signals and Systems Laboratory	16
	CPEG 340L-02	Embedded System Design Laboratory	13
	CPEG 210L-01	Digital Logic Design Laboratory	12
	CPEG 210L-03	Digital Logic Design Laboratory	26
Spring 2023	ELEG 220L-01	Electric Circuits Laboratory	10
	ELEG 270L-02	Electronics Laboratory	8
	ELEG 320L-01	Signals and Systems Laboratory	17
	ELEG 320L-02	Signals and Systems Laboratory	11
Fall 2022	ELEG 270L-02	Electronics Laboratory	28
	ELEG 320L-01	Signals and Systems Laboratory	19
	ELEG 320L-02	Signals and Systems Laboratory	26
	ELEG 320L-03	Signals and Systems Laboratory	26
	CPEG 210L-01	Digital Logic Design Laboratory	12
	CPEG 210L-04	Digital Logic Design Laboratory	26
Spring 2022	ELEG 270L-01	Electronics Laboratory	25
	ELEG 270L-02	Electronics Laboratory	8
	ELEG 320L-01	Signals and Systems Laboratory	25
	ELEG 320L-02	Signals and Systems Laboratory	17
Fall 2021	CPEG 210L-02	Digital Logic Design Laboratory	12
	CPEG 210L-06	Digital Logic Design Laboratory	14
	ELEG 320L-01	Signals and Systems Laboratory	13
	ELEG 320L-02	Signals and Systems Laboratory	15
	ELEG 320L-03	Signals and Systems Laboratory	14
	ELEG 320L-04	Signals and Systems Laboratory	14
	ELEG 320L-05	Signals and Systems Laboratory	14
	ELEG 320L-06	Signals and Systems Laboratory	14
Spring 2021	CPEG 210L-01	Digital Logic Design Laboratory	32
	CPEG 210L-02	Digital Logic Design Laboratory	32
	ELEG 270L-01	Electronics Laboratory	29
	ELEG 270L-02	Electronics Laboratory	29
	ELEG 320L-01	Signals and Systems Laboratory	17
Fall 2020	CPEG 210L-02	Digital Logic Design Laboratory	33
	CPEG 210L-03	Digital Logic Design Laboratory	36
	ELEG 270L-01	Electronics Laboratory	34
	ELEG 320L-02	Signals and Systems Laboratory	37

Summer 2020	CPEG 201L-01	MATLAB Programming Laboratory	25
	ELEG 270L-01	Electronics Laboratory	1
Spring 2020	CPEG 210L-02	Digital Logic Design Laboratory	26
	CPEG 210L-03	Digital Logic Design Laboratory	25
	ELEG 270L-02	Electronics Laboratory	24
	ELEG 320L-02	Signals and Systems Laboratory	22
	ELEG 320L-04	Signals and Systems Laboratory	22
Fall 2019	CPEG 210L-03	Digital Logic Design Laboratory	29
	CPEG 210L-04	Digital Logic Design Laboratory	27
	ELEG 270L-02	Electronics Laboratory	26
	ELEG 320L-01	Signals and Systems Laboratory	26
	ELEG 320L-02	Signals and Systems Laboratory	14
	ELEG 320L-03	Signals and Systems Laboratory	10
Spring 2019	CPEG 210L-02	Digital Logic Design Laboratory	17
	CPEG 210L-03	Digital Logic Design Laboratory	25
	ELEG 220L-01	Electric Circuits Laboratory	20
	ELEG 220L-02	Signals and Systems Laboratory	27
	ELEG 320L-01	Signals and Systems Laboratory	26
	ELEG 320L-03	Signals and Systems Laboratory	11
Fall 2018	CPEG 210L-01	Digital Logic Design Laboratory	29
	CPEG 210L-03	Digital Logic Design Laboratory	27
	ELEG 270L-01	Electronics Laboratory	26
	ELEG 270L-02	Electronics Laboratory	26
	ELEG 320L-03	Signals and Systems Laboratory	14
	ELEG 220L-04	Signals and Systems Laboratory	10

b. Teaching Activities Utilizing Novel Approaches to Teaching and Learning:

The list below outlines some of the approaches I implemented to enhance my students' learning experience:

- Introduced new and improved existing lab projects to employ project-based learning, teaching various hard and soft skills.
- Encouraged students to learn by teaching others through different approaches, such as assisting their classmates after completing the tasks as well as creating video-based tutorials, sparking creativity, and improving students' understanding of the lab topics.
- Utilized Moodle's Forum during online lab courses to encourage academic discussion, and resource sharing among students, enhancing students' engagement.
- Implemented a flipped classroom teaching approach during online semesters, building curiosity, and maximizing lab hours through interactive discussions.
- Created YouTube video lectures to aid the flipped classroom approach, allow self-paced review, and assist absent or struggling students.
- Incorporated real-life applications through lab projects and exercises to assist students in connecting theoretical concepts to practical applications.
- Introduced gamified lab activities such as Kahoot Quiz and spotting mistakes work.
- Provided unified one-page notes sheets during exams for certain labs to shift students' focus from memorization to understanding.

- Required students to record experimental results digitally, replacing the traditional way of writing results on paper. This approach made report writing more efficient and reduced errors in data, while contributing to environmental sustainability.
- Scheduled one-on-one meetings with students to provide feedback on their lab report drafts and discuss their technical writing.

c. Co-Supervised Capstone Design Projects:

- Smart Recycling Bin (Raghad Alsaqran, Fatemah AlMutairi, Hajar AlMutairi, Saja Al Bin Ali, Fall 2023)
- Sign Language Translator (Shaha AlShammari, Mariam Shehadeh, Nada AlOthaina, Hana Ghonim, Fall 2023)
- Smart Augmented Reality Glasses (Almuntaser AbdulSalam, Ahmad Aldulaie, Amer Alazemi, Fall 2021)
- CyberShell (Sayed AlQallaf, Rola Nour Eldine, Jasim AlMeer, Bader AlTayyar, Fall 2021)

d. Student Advising:

The number of students advised per semester is given below:

Semester	**# of ELEG Students**	**# of CPEG Students**
Spring 2020	26	7
Fall 2020	26	7
Spring 2021	33	8
Fall 2021	25	9
Spring 2022	25	9
Fall 2022	25	9
Spring 2023	23	6
Fall 2023	26	2
Total	**209**	**57**

10. Student Evaluations

Received student evaluations of my teaching since joining AUK are available in Appendix D.

11. University Services

- Visited seven lab sections to assist the Academic Quality Committee in presenting the importance of student evaluations of teaching (SET) and collecting feedback (2023)
- Served as a proctor at the IEEEXtreme competition hosted by AUK (2023)
- Acted as a member of the Curriculum and Assessment Committee (2023)
- Volunteered and mentored at the NASA Space Apps Challenge hosted by AUK (2022)
- Hosted a review workshop for Electronics Laboratory students, focusing on addressing lacking hardware skills among students who completed the prerequisite lab online (2022)
- Hosted an online review workshop for all CPEG 210L students (2021)
- Assisted as a proctor for exams (2021-Present)
- Contributed as a member of the Student Liaison Committee (2020)
- Served as a proctor assistant for the ELEG 220 course project (Fall 2018-Fall 2019)