

KHALED MAHFOUZ

Assistant Instructor in Electrical and Electronics Engineering

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Ajman, United Arab Emirates

EXPERIENCE

Electrical Engineering Assistant Instructor

Ajman University

03/2017 - Ongoing Ajman, U.A.E

- Conduct lab and tutorial sessions for Electrical Engineering courses namely: Design with Integrated Circuits, Electrical Devices and Circuits II, Electrical Devices and Circuits I, Logic Design, Circuit Analysis I, Sensors and Instrumentation, Power Electronics.
- Supervise and assist students in graduation projects.
- Assist the department in various academic accreditation processes and requirements such as CAA and ABET.
- Assist the department in the admission and registration of new and continuing students and the follow up of Alumni affairs.
- Member of Department Committees: Assessment, Effectiveness & Continuous Improvement Committee and Departmental Marketing Committee.
- Represent the department in various co-curricular events such as research and project competitions, graduation ceremonies, etc.

Graduate Trainee Teaching Assistant

Ajman University

09/2016 - 03/2017 Ajman, U.A.E

- Conduct lab and tutorial sessions for Electrical Engineering courses namely: Electrical Devices and Circuits I, Logic Design, Circuit Analysis I.
- Supervise and assist students in graduation projects.

EDUCATION

M.Sc in Artificial Intelligence

Ajman University

08/2020 - Ongoing

- Modules include: Robotics, Machine Learning, Artificial Intelligence, Evolutionary Computations, Data Mining, Computer Vision and Pattern Recognition, Natural Language Processing with Deep Learning, etc.

GPA
4.0 / 4.0

B.Sc in Electrical Engineering

Ajman University

09/2012 - 08/2016

- Modules include: Design with Integrated Circuits, Digital Integrated Circuits, Programming of Micro-controllers, VLSI, Digital System Design (in VHDL), Power Electronics, Power Systems and Protection, Communication Electronics, etc.

GPA
4.0 / 4.0

High School Secondary Certificate

Al Ameer English School

- CBSE Accredited Science Concentration.

PUBLICATIONS

Solving 0-1 Knapsack Problems Using Sine-Cosine Algorithm

2021 The Palestinian International Conference on Information and Communication Technology

K. Mahfouz, S. Ali, M. Al-Betar, A. Awadallah

<https://ieeexplore.ieee.org/document/9636992>

PROJECTS

Emotion Detection Using Deep Learning

Course Project for Natural Language Processing with Deep Learning

- Extraction of Emotions from labelled emotion dataset using proposed CNN and LSTM based deep learning models.

Image Stitching Using K-Means Segmented Regions

Course Project for Computer Vision and Pattern Recognition

- Stitching of images using keypoint features extracted from k-means segmented regions of input images.

Solving 0-1 Knapsack Problems Using Sine-Cosine Algorithm

Course Project for Evolutionary Computations

- Proposal and MATLAB implementation of a binary version of the Sine-Cosine Algorithm designated for the optimization of 0-1 Knapsack Problems.

Image Segmentation Using K-Means, K-Medoid and OPTICS

Course Project for Data Mining

- Implementation of MATLAB program that performs image segmentation using k-means, k-medoid and OPTICS clustering algorithms.

Multiple Linear Regression Using Gaussian Basis Functions

Course Project for Machine Learning

- Implementation of MATLAB program that performs multiple linear regression for numerical data prediction purposes.

Intelligent Shopping Cart

Graduation Project for Bachelor's Degree

- Designed a shopping cart that was able to identify placed and removed items using RFID Technology.
- Implemented a compatible POS system that complies with the developed shopping cart.

Sequential Turn Signals

Course Project for DSD in VHDL

- Designed a sequential type turn signals for cars programmed on a FPGA using VHDL.

PUBLICATIONS

Route Mapping and Biometric Attendance System in School Buses

2020 Advances in Science and Engineering Technology International Conferences (ASET)

K. Mahfouz, S. Rameshi, M. Rafat, M. Elsayed., M. Sheikh., H. Zidan
<https://ieeexplore.ieee.org/abstract/document/9118199>

AWARDS



Golden Visa Holder

Holder of U.A.E's 10 Year Distinguished Golden Visa



Head Of Class

Excellence with Honors and Head of Electrical Engineering Batch of 2012



IEEE UAE Student Day 2016

Third Place in National CDP Competition

INDUSTRY EXPERTISE

Leadership



Management



Teamwork



Communication



Academics



Involvement



REFERENCES

References available on request.

SKILLS

Hardware

Active and Passive Circuits

Soldering

Integrated Circuits

Troubleshooting

Arduino Boards

Programming

C

C#

VHDL

MATLAB

LabView

Python

Arduino

Design and Simulation

MultiSim

CAD (Beginner)

Photoshop

PCB Wizard

STRENGTHS



Enthusiastic



Perseverant



Fast Learner



Detail-Oriented



Time Management



Disciplined



Hardworking

LANGUAGES

Arabic

Native ●●●●●

English

Proficient ●●●●●

Urdu

Speaking Only ●●●●●