KHALED MAHFOUZ

Assistant Instructor in Electrical and Electronics Engineering

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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

- 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

GPA 4.0 / 4.0

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

B.Sc in Electrical Engineering

Ajman University

09/2012 - 08/2016

Modules include: Design with Integrated Circuits, Digital Integrated Circuits, Programming of Microcontrollers, 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 Palestenian International Conference on Information and Communication Technology

K. Mahfouz, S. Ali, M. Al-Betar, A. Awadallah Phttps://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, kmedoid 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 SKILLS

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

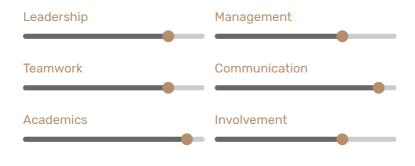
Golden Visa Holder
Holder of U.A.E's 10 Year
Distinguished Golden Visa



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



REFERENCES

References available on request.

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

Urdu

Arabic Native •••••

English Proficient •••••

Speaking Only