



Isam Mutasem Jazzar

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📍 Illar, Tulkarm, Palestine

WORK EXPERIENCE

Teaching Assistant

Palestine Technical University – Kadoorie

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09/2016 – Present Tulkarm, Palestine

is a university located in Tulkarm, in the northern West Bank, the college was inaugurated in 1930.

Achievements/Tasks

- Lectured in C++ programming, Computer Fundamentals, Excel for Accountants, and supervised a Graduation Project and Arabic Calligraphy, and Typography.
- Developed programs of learning activities for the classes with large number of students (exceeding 45 students per class).
- Planned, prepared and researched lessons and teaching materials for different classes.
- Invigilated examinations and attended staff meetings.
- Held the position of computerized exams for both the university of Palestine Technical University - Kadoorie and the ministry of education exams and organized the shifts and work between them.
- I have worked on the e-learning system for this year.
- I trained with the University of the People on e-learning for a week.

Internet System Administrator

Ministry of Local Government,

05/2015 - 07/2015 Illar, Tulkarm, Palestine

Achievements/Tasks

- Worked for the municipality of Illar on managing their routers and administrating their local network.

Internet Network officer

Super Link for Communication Ltd

03/2015 - 05/2015 Tulkarm, Palestine

Achievements/Tasks

- Worked on CRM and Portal tools to detect network lines and measure the speed the connection speed on the users' end.
- Provided Technical Support and maintenance for something around 4 problems a week and provided Customer Service in average of 4 services a week.

EDUCATION

-Bachelors of Science: Computer Science

Palestine Technical University – Kadoorie Tulkarm, Palestine Class 2015
09/2011 - 05/2015 Tulkarm, Palestine

Courses:

- + A graduation project in VISIBLE LIGHT COMMUNICATION BASED DATA TRANSMISSION SYSTEM USING Li-Fi that's more secure than the traditional cables and faster than them by 30%.
- + A restaurants' management system built using PHP language which supports restaurants' owners in administration roles.
- + Designed a CPU diagram and circuit in collaboration with the Computer Engineering Department.

-Master of Science: Computer Science

An-Najah National University Nablus, Palestine Class 2020
01/2016 - 05/2020 Nablus, Palestine

Courses:

- A graduation project in medical image processing in brain tumor detection and epilepsy detection name: Feature Extraction of EEG Signal to Classify Epileptic Signal Using Neural Network.
- Wrote a paper in Morphological image processing approach on the detection of tumor and cancer cells by analyzing different medical and MRI images to get the abnormality in the image. This paper proposes an efficient K-means clustering algorithm under Morphological Image Processing (MIP). This was done by the supervision of Dr. Abdel-Razzak Natsheh.
- Studied the algorithms, estimated the complexity, and built Sparse Matrix Operations on Matlab especially on Permutations & Refactoring alongside with Factorizations such as LU, QR, and Incomplete Factorizations.
- Built a simulator that eliminates dangerous plants and preventing them from reproduction and growth. I've been able to run the simulator on multiple inputs of the amount and the location of the burn we're going to cause to track the effect of this burning before happening in a real life.
- Developed a program that solves the heat equation problem in psychics for the Parallel Programming and High Performance Computing course. We used two approaches; one that runs on a single thread and the other is paralyzed with different speeds.
- Developed a program on Genetic Algorithm solving both constrained and unconstrained optimization problems that is based on natural selection, the process that drives biological evolution
- Advanced Data Structures and Algorithms, Computer Modeling and Simulation, High, Performance Computing, Numerical Partial Differential Equations, Computational Linear Algebra, Advanced Linear Programming, Digital Image Processing, Artificial Intelligence, Digital Image Processing1, Computer vision: Digital Image Processing2, Numerical Optimization, Stochastic Processes (Statistical Modeling), and Special Topics in Image Processing.

Projects:

- Brain tumor detection and classification to Benign and malignant from MRI image and CT image.
- Seizer and epilepsy detection from EEG signal.
- Heart rate abnormal detection from ECG Signal.
- Fetal heart detection normal and abnormal.
- Lungs cancer detection.
- Breast cancer detection.

SKILLS

-Problem Solving - Critical Thinking - Learning ability - Creativity - Design - Data Analysis - Projects Management - Responsibility - Teamwork

VOLUNTEER EXPERIENCE

Qabas exhibition

Calligraphy

02/2014 - 02/2014 Kadoorie, Tulkarm, Palestine
Arabic Calligraphy

Smart days

Leader organization

05/2014 - 05/2014 Tulkarm, Palestine
Trained at Business Model Canvas(BMC)

HONOR AWARDS

visible light communication and Li-Fi

(04/2015 - 05/2015)

visible light communication

The best graduation project of 2015 at the university level on data transmission based on visible light communication.

Classify Epileptic Signal from EEG

(03/2020 - 05/2020)

Feature Extraction of EEG Signal to Classify Epileptic Signal Using Neural Network

The graduation project of 2020 at the university.

LANGUAGES

Arabic	<i>Native or Bilingual Proficiency</i>
English	<i>Full Professional Proficiency</i>
C++, C	<i>Native or Bilingual Proficiency</i>
Matlab	<i>Native or Bilingual Proficiency</i>
Java	<i>Professional Working Proficiency</i>
PHP, HTML, Css	<i>Full Professional Proficiency</i>
Python	<i>Full Professional Proficiency</i>

INTERESTS

- Web pages coding
- Arabic Calligraphy
- Arabic Poetry
- Drawing