

# MOHAMMAD MKANNA

## M.Sc. Graduate and Researcher

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## ABOUT ME

Holder of a Master's degree specializing in Signals, Telecommunications, Image, and Speech. Eagerly immersed in the advancements of AI technology within the realms of Image and Signal Processing.

## EXPERIENCE

### Research Internship

#### Université du Littoral Côte d'Opale

06/2023 – 11/2023    Calais, France

Thesis Title: CHARACTERIZATION OF SPECIFIC IMAGE NOISE ATTRIBUTES FROM DEEP NETWORKS.

- The proposed research project falls within the framework of the study of quality and specificity of images by automatic learning which require the understanding of the random feature maps and its effect in CNNs and LSTMs models.
- Applying concepts of Random Matrix Theory(RMT) and SVD for studying the randomness of weight matrices inside the models of LSTM and CNN to explain what features are affecting the model.
- We have acquired spike eigenvalues that present an opportunity for further exploration in extracting these eigenvalues to visualize the features.

### Support Engineer

#### Celestatel

02/2022 – 08/2023    Beirut, Lebanon

Celestatel is a leading global provider of international SMS and VOIP Termination.

My Responsibilities:

- Follow up the clients from configuring new connections and routing traffic.
- Create daily reports related to traffic and capacity.
- Follow up daily tickets.
- Logs problems and important activities.
- Conduct testing following the procedures and standards.
- Full monitoring of traffic.

## EDUCATION

M.Sc. in Signals, Telecommunication, Image and Speech Processing (STIP Program)

Lebanese university, Faculty of Science and ULCO University

11/2021 – 11/2023

B.Sc. in Electronics

Lebanese university, Faculty of Science

09/2018 – 10/2021

## SKILLS

Programming: Python    MATLAB    C++  
Verilog/VHDL

AI: Machine Learning    Deep Learning  
Tensorflow    Keras    Scikit-Learn    pandas  
Pytorch    matplotlib

## CERTIFICATES

Machine Learning Specialization.

Building Blocks of Data Science.

Introduction to Computation & Programming Using Python

OPENCV BOOTCAMP

## LANGUAGES

Arabic    ● ● ● ● ●  
English    ● ● ● ● ●

## PROJECTS

Differential Pulse-code modulation (DPCM) systems

07/2022 – 09/2022

The project is an implementation of DPCM system on Matlab/Simulink carried by full analysis of linear prediction filter and the overall performance.

CONTROLLED MOVING ROBOTIC ARM

07/2021 – 08/2021

A moving controlled robotic arm is built using Arduino controller which can move from one place to another and pick up objects with a clap, all that by the mean of a Bluetooth module controlled by a smart phone.