



# Mohammed Nasser

*"What we consider a fact is just an approximation of the mind to fill gaps" - Michio Kaku*

## Personal Information

Birth Date 1/5/1993  
Full Name Mohammed Mahmood Abdulwahab Nasser  
Address Mevlana Mah. Ikbal Cad. Block No:10/4 ,Kayseri,Turkey  
Email momaabna@gmail.com  
Nationality Yemeni

## Education

2019 **2022**, *Master in Geomatics Engineering*, Erciyes University, Kayseri,Turkey.  
Excellent  
2012 **2017**, *Bachelor(honor) in Surveying Engineering*, University Of Khartoum,  
Khartoum.

## Experience

### Professional

2017 **2019**, *GIS Developer* , ACTS Company, Khartoum, Sudan.  
2017 **2018**, *Part-time Teaching Assistant* , Surveying Engineering Department, Faculty of Engineering ,University Of Khartoum.

### Volunteering

01/05/2015 **01/05/2016**, *Head Of Cultural Department Of the Yemeni Student Union in Sudan*, Yemeni Student Union In Sudan, Khartoum.  
(1 Year)  
02/2017 **05/2017**, *Chairman of the Projects Committee*, Surveying Engineering Department committee EW 2017, Khartoum.

### Training and Courses

13/12/2014 **24/01/2015**, *Professional Training in Automation (Classic Control - PLC Basic And Advanced Application - Scada)*, Jelecom, Khartoum.  
Excellent

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- 17/8/2015 **1/9/2015**, *Course in MicroControllers Basic Application*, Training And Self-Assessment Department-Sudan University of Science and Technology, Khartoum.  
Excellent
- 19/02/2019 **28/02/2019**, *Closed Circuit TV (CCTV)*, New Horizon, Khartoum.
- 16/04/2017 **29/04/2017**, *Course In Machine Learning*, IEE Sudan, Khartoum.
- 19/01/2017 **02/02/2017**, *Hydrological Modelling Using HEC-HMS*, ETCO Training and Human Development Center, Khartoum.  
Good
- 14/04/2020 **05/05/2020**, *Satellite Remote Sensing for Agricultural Applications*, NASA's Applied Remote Sensing Training Program (ARSET), Online.

### Events and Conferences

- XI.Turkish National Photogrammetry and Remote Sensing Union Technical Symposium (TUFUAB2022), 2022.
- Workshop in Cloud Computing IEE Sudan Khartoum, 2015
- 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE). IEEE, 2019.
- 2018 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE). IEEE, 2018.

### Published Works

- Al-Shaebi, Zakarya, Fatma Uysal Ciloglu, **Mohammed Nasser**, and Omer Aydin. "Highly Accurate Identification of Bacteria's Antibiotic Resistance Based on Raman Spectroscopy and U-Net Deep Learning Algorithms." ACS omega (2022).
- **Nasser, Mohammed**, Atasever, Ümit Haluk. "Estimation of Initial Parameters for 3D Similarity Transformation with Evolutionary Search Algorithms" XI.Turkish National Photogrammetry and Remote Sensing Union Technical Symposium (TUFUAB2022), 2022.
- Al-Mujtaba, Mohammed, **Nasser, Mohammed**, et al. "In Efficiency of New Horizontal Barcoded Staff Coding and Automatic Leveling Measurement." 2019 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE). IEEE, 2019.
- **Nasser, Mohammed**. "Automatic Road Digitizing of Segmented Aerial Images for Urban Areas Based on K-means and Hough Transformation." 2018 International Conference on Computer, Control, Electrical, and Electronics Engineering (ICCCEEE). IEEE, 2018.

### Languages

Arabic	Native
English	Advanced Level
Turkish	C 2

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## Computer Skills

### AI and data analysis skills

Python Numpy, Pandas, Scipy, Sklearn, Tensorflow, Keras, Pytorch

### Image Processing and Computer Vision Programming Skills

Python OpenCV, C++ OpenCV, Matlab

### Geo-spatial data analysis skills

python GEE, Geopandas, Folium, ArcPy, pyQGIS, GDAL, Rasterio

Javascript GEE, OpenLayers

### Other Computer Skills

Programming C++, Python

Web Dev. HTML, CSS, Bootstrap, Tailwind, Javascript, React.js, PHP and Laravel, Python Flask

Database SQL, MongoDB, MySQL, PostgreSQL

GUI Python PyQt5, Visual Basic.NET

Embedded Sys. MicroController, Arduino, Raspberry Pi

Math. Env. Matlab, Octave

Windows Batch scripting

Linux Bash Scripting, Server Management

Softwares Autocad 2D and 3D, ArcGIS, QGIS, Surfer, Agisoft Photoscan, Erdas Imagine, SNAP

## Interests

Artificial Intelligence and Neural Networks

Modeling, Automation, and Optimization

## Thesis and Open Source

### Thesis

- o Road Extraction from Satellite Imagery Using Deep Learning

*Master Thesis*

- o Evaluation Of The Georeferencing Quality Of Landsat 8 Over Khartoum State

*Bachelor Thesis*

### Open Sources

- o QGPT Agent .
- o Tracker: PHP Covid-19 Health Management System .
- o X-ray Pneumonia Detection Online Service .
- o Vehicle Counter and Classifier .

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