

## Contact

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## Top Skills

Spatial Analysis

PostgreSQL

SQL

## Languages

Arabic (Native or Bilingual)

English (Full Professional)

Spanish (Limited Working)

French (Professional Working)

Russian (Elementary)

German (Professional Working)

## Certifications

Prince 2 Fundamental and Practitioner

Member of the Expert Database of Specialists of GIZ

# Ashraf ABUSHADY

Senior Advisor on Digital Transformation and Artificial Intelligence  
Austria

## Summary

Experienced International Consultant with a demonstrated history of working in the United Nations and International Organizations. Skilled in Information Technology, Communications, GIS, Emergency Management, International Relations, Project Coordination, Policy Analysis, and Diplomacy. Strong consulting professional with a Masters of Science in Engineering focused in Communications and Information Technology from the Vienna Technical University.

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## Experience

### UNIDO

4 years 4 months

Senior Advisor on Digital Transformation and Artificial Intelligence  
January 2023 - Present (1 year 7 months)

Vienna, Austria

### Information and Communications Consultant

April 2020 - December 2022 (2 years 9 months)

Vienna, Austria

### World Food Programme

#### Consultant

March 2018 - February 2020 (2 years)

Rome Area, Italy

- Maintain and further improve the Logistics Cluster Preparedness Platform;
- Liaise with other divisions in WFP for the integration of geospatial data into corporate systems and websites;
- Support the implementation of new nodes of the Spatial Data Infrastructure;
- Maintain and further improve the WFP GIS Infrastructure;
- Contribute to the official release with RMT of the GIS infrastructure;
- Contribute to the administration of the WFP's organizational account in ArcGIS Online;

- Support creation of a GIS community in WFP with the goal of improving information and knowledge sharing;
- Support creation of the GIS page into the WFP Communities and coordination of content that will be posted.
- Contribute to the creation of a procedure that integrate data received through the SDI Into layers used for mapping by the GIS officers in the team;

## UNIDO

### Consultant

August 2016 - February 2018 (1 year 7 months)

Vienna, Austria

Develop a real time asset tracking and management system for UNIDO

<https://www.youtube.com/watch?v=Ay26xOaVO-g>

Upgraded the process for the yearly physical inventory system which used to take 6 weeks and two full time persons and was a very exhausting system with a lot of errors in recording the asset. The updated system provides a full view of the Assets and their location in real time instantly so that a physical inventory can be done particularly every minute including a mapping interface representing the exact location of every asset in real time.

## World Food Programme

### GIS Officer

August 2015 - June 2016 (11 months)

1. Work with Humanitarian Community to establish priority data collection/ processing activities based on emerging information requirements and update infrastructure database;
2. Collect/develop and analyse information products to support emergency preparedness i.e. risk analysis, early warning and contingency planning, including in preparedness activities, organize and conduct emergency needs assessments and support operational planning.
3. Develop methodology to run Road Assessments and field survey in order to collect data related to Logistics Infrastructure;
4. Lead and/or participate in Road /Bridge/Culvert/Flood assessments and monitoring as well as other joint assessments;
5. Ensure that the GIS Unit in Juba and other collaborating agencies are operating with the most up to date geographic data available on roads and infrastructure;
6. Strengthen the operational capacity of WFP staff to conduct food security assessments and analysis at the Country, Area and SubOffice levels;

7. Ensure the Logistics Capacity Assessment report is regularly updated twice a year;
8. Developing geographic information policies, guidelines and standard operating procedures (SOPs) as well as lessons learned and best practices;
9. Collect and analyze other information sources such as situation reports, field bulletins, and other situational reporting from operational agencies in their area of responsibility, and translate the information content into geographic data;
10. Provide technical support and guidance to the establishment, maintenance and analysis of project monitoring and evaluation systems to assess changes in the food security and vulnerability status.

Worked on developing an offline solution to enable all duty station personnel to have access to maps and GIS data. the solution is based on a GIS server, Database, Portal and GIS apps and is hosted entirely on the local network without the need for any external connectivity.

## CTBTO

16 years 10 months

### FIMS & COMS Officer

February 2009 - June 2015 (6 years 5 months)

Vienna, Austria

Finalize the provisional conceptual approach and design (hardware, software and ergonomics) of a Geographical Information System (GIS) for integration into an OSI Infrastructure Operation Support Centre; take part in relevant conferences, seminars or expert meetings in relation to communication, GIS Information Management Systems and Satellite imagery;

Further elaborate the conceptual approach and the design (hardware, software and ergonomics) for a Field Information Management System (FIMS) for an OSI base of operation in the field;

Develop and update technical requirements and specifications for hardware and software of the databases and means of communications to be used by future inspection teams, designing specialized databases as required; support other sections in the development of the communication means for the Operations Support Centre (OSC);

Develop and Elaborate the OSI communications concept; identify and select appropriate communications technologies for testing and experiment/exercise purposes. Perform permanent survey of the state of the art communications technologies in order to identify select and test equipment representing significant progress;

Participate, together with the Training Section, in the design, curriculum preparation and implementation of training courses for GIS, FIMS and OSI communication Plan, Coordinate and Contribute with other units in the PTS, and the OSI Division to various types of exercises and experiment at each step (from design to planning, preparation, implementation, reporting and evaluation), regarding GIS, FIMS and communications;

Has Successfully designed & developed a geographical Information System lab for the Organization.

Successfully designed & developed a field Information Management System that was positively implemented and used during field operations of the Onsite Inspections.

Designed & developed a field Communications Solution for communicating from and to the field and the headquarters.

#### Methodology Officer

April 2000 - January 2009 (8 years 10 months)

##### On-Site Inspection Division

- Work on developing infrastructure, concepts and techniques for the first Remote Sensing and GIS lab for the CTBTO, which has been successfully tested during several On-Site Inspection activities.
- Work on Developing infrastructure, concepts and techniques for a Field Information Management System (FIMS), which is a system to enable the On-Site Inspection team to have powerful RS and GIS capabilities in remote areas.
- Work on developing OSI related software, databases and their structures.
- Prepares analytical reports for Areas of Interest (AOI) for CTBTO including data provided by member states, commercial imagery, and open source data.
- Organizes and perform on the ground site surveys for the AOIs and writes analytical reports thereof.
- Collaborate across the UN and specialized agencies for sharing of technical expertise and declassified data sharing. Act as the focal point representing the CTBTO at the United Nations

##### Geographical Information Working Group (UNGIWG).

- Act as lecturer for RS and GIS for all the OSI training courses for member states as well as during the refresher courses for OSI activities and field exercises.

##### On-Site Inspection:

- Participated as inspector and as the Base of Operations (BOO) manager in the field responsible for

managing the data analysis in the field using the FIMS.

-Supervise the communications officer responsible for all communications within the team and from the team to the headquarters in Vienna.

Communications and IT:

-Provided Input and contributions to the OSI Operational Manual regarding Communications Issues and Information Technology Issues

-Identified general conditions for the use of radio communications by members of the Inspection Team during an On-Site Inspection.

-Identified IT requirements and security requirements for the members of the Inspection Team during an On-Site Inspection.

Consultant

September 1998 - April 2000 (1 year 8 months)

On-Site inspection Division

Under the direction of Chief, Methodology Section, OSI Division, assist with the development of the

OSI-related infrastructure and databases and their structure into the Operational Manual; conduct

literature searches and identify means of communications to form the basis for techniques and procedures

in the Manual, as well as provide computer programming-related improvements to the Manual Resource

Management Tool. Install and Test several Satellite Imagery software packages and define relevance to

monitoring nuclear test sites around the world. Keep up-to-date information on the radio communications

equipment market. Provide technical assistance within the entire Division as required •Under the

direction of Chief, Equipment Section, OSI Division, performed several scoping studies, of which, to

identify world-wide suppliers, of suitable two-way wireless communication equipment used in the field,

Satellite Communication equipment (specifically Inmarsat and the IRIDIUM system) and develop

preliminary specifications and make recommendations. •Compile a report on the International rules and

regulations concerning the use of wireless communications equipment.

•Performed a scoping study on

OSI Equipment Testing Programme, development, Implementation, Options and Plans. •Assisted in the design and development of the administration and financial spreadsheets for programme planning activities and financial resources assigned to the Division. •Assisted in the design and development of the OSI division software, Manual Resource Management Tool (SysTel) •Provide technical assistance within the entire Division as required •Design a Database under MS Access to be the base for the OSI Equipment Inventory list. •Design, Format, Scan documents and publish information, using Microsoft software packages, (Word, Access, Excel, Project,..) •Assist in computer software and hardware problems, Laptop – computer connections. •Assist Staff with presentations and obtaining information.

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## Education

European International University - Paris (Official)

Doctorate in Technology (Dr. Tech., h.c.), Specialization in Information Technology and Artificial Intelligence, Honoris Causa (Dr.Tech, h.c.) · (July 2024)

Vienna University of Technology

Master of Science (M.Sc.), Information and Communications Engineering · (1998 - 2004)

Technische Universität Wien

Dipl. Ing., Communications and Information Technology · (1996 - 2004)