

## C.V.

### Personal Details

**Name:** Maythm M Sharky Al-Bakri

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[m.m.s.albakri@gmail.com](mailto:m.m.s.albakri@gmail.com)

**Position:** - Lecturer at the Department of Surveying / College of Engineering / University of Baghdad, 2003-present.

- Assistant head of surveying department, 2013-2015.
- Head of surveying department, July/2015 – December/2017.
- Assistant dean, 2017-2020

### Qualifications

<b>Level</b>	Bachelor of Science (B.Sc.)
<b>Subject</b>	Surveying Engineering
<b>Grade</b>	75.089%
<b>Year</b>	1999
<b>Organization</b>	University of Baghdad / Iraq

<b>Level</b>	Master of Science (M.Sc.)
<b>Subject</b>	Surveying Engineering
<b>Thesis Title</b>	Accuracy Assessment of Digital and Analytical Close Range Photogrammetry Techniques
<b>Grade</b>	75.64%
<b>Year</b>	2002
<b>Organization</b>	University of Baghdad / Iraq

<b>Level</b>	Doctor of Philosophy (Ph.D)
<b>Subject</b>	Geomatics
<b>Thesis Title</b>	Developing Tools and Models for Evaluating Geospatial Data Integration of Official and VGI Data Sources
<b>Grade</b>	Pass
<b>Year</b>	2012
<b>Organization</b>	Newcastle University / UK

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### Career:

No.	Career	Work place	From - to
1.	Assist. Lecturer	College of Engineering / University of Baghdad	2003 -2012
2.	Lecturer	College of Engineering / University of Baghdad	2012 - 2016
3.	Assist. Professor	College of Engineering / University of Baghdad	2016 - Present

### Specialization

<b>General</b>	Surveying Engineering (Geomatic Engineering)
<b>Specific</b>	Cartography

### Research Interests

- Open-Source Spatial Data: development, disseminating, and accuracy assessment.
- Geospatial Data Handling.
- Semantic Data Analysis.
- Geospatial Data Integration: Spatial Data Infrastructure (SDI).
- Developing Systems and Software of Geospatial Data Management: Open-Source GIS.

### Supervision / Postgraduate Students

No	Thesis Title	Department	Year
1	Evaluating the Quality of Authoritative Geospatial Datasets	Dept. of Surveying / College of Engineering / University of Baghdad	2015-2017
2	Matching Assessment of Road Network Objects of Volunteered Geographic Information Dataset	Dept. of Surveying / College of Engineering / University of Baghdad	2015-2017
3	Comparison of Different DEM Generation Methods based on Open-Source Datasets	Dept. of Surveying / College of Engineering / University of Baghdad	2017-2018

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4	Simulation of Rivers' Water Flow based on Digital Elevation Model Construction	Dept. of Surveying / College of Engineering / University of Baghdad	2017-2018
5	Development of Bridges Maintenance Management System based on Geographic Information System	Dept. of Surveying / College of Engineering / University of Baghdad	2017-2018
6	Management of Roadway Maintenance using Geographic Information Systems (Case Study: Karbala / Iraq)	Dept. of Surveying / College of Engineering / University of Baghdad	2017-2018
7	The Optimum Site Selection for Solar Energy Farms using AHP in GIS environment, A Case Study of Iraq	Dept. of Surveying / College of Engineering / University of Baghdad	2019-2020
8	Assessing the Quality of Freely Available Digital Elevation Models (DEMs) over Wasit Region, Iraq	Dept. of Surveying / College of Engineering / University of Baghdad	2019-2020
9	Investigating the effect of cartographic properties on updating cadastral maps	Dept. of Surveying / College of Engineering / University of Baghdad	2019-2020

## Publications

No.	Research Title	Place of Publication	Year
1	The Optimum Site Selection for Solar Energy Farms using AHP in GIS environment, A Case Study of Iraq	IOP Conference Series: Materials Science and Engineering	2020
2	Investigating the effect of cartographic properties on updating cadastral maps	IOP Conference Series: Materials Science and Engineering	2020
3	Assessing the Quality of Freely Available Digital Elevation Models (DEMs) over Wasit Region, Iraq	Journal of University of Shanghai for Science and Technology	2020
4	Calculating the Vertical Displacement using the Method of Least Squares Adjustment and 3D Objects Fitting	IOP Conference Series: Materials Science and Engineering	2020

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<b>5</b>	Development of Bridges Maintenance Management System based on Geographic Information System Techniques (Case study: AlMuthanna\Iraq)	Journal of Engineering	2019
<b>6</b>	Simulation of rivers water flow based on digital elevation model construction	International Journal of Civil Engineering and Technology	2018
<b>7</b>	GNSS Positioning Techniques for Enhancing Google Earth Data Quality	1st International Conference on Recent Trends of Engineering Sciences and Sustainability / IEEE /Iraq	2017
<b>8</b>	Matching Assessment of Road Network Objects of Volunteered Geographic Information Dataset	Association of Arab Universities Journal	2017
<b>9</b>	Evaluating the Quality of Authoritative Geospatial Datasets	Journal of Engineering	2017
<b>10</b>	VGI Data Collection for Supplementing Official and Administration Systems	GISRUK 2017 conference, Manchester, UK	2017
<b>11</b>	Analysing Building Shapes Quality of Collaborative Mapping	Association of Arab Universities Journal	2016
<b>12</b>	Comparing Open Source Map Data in Areas Lacking Authoritative Mapping	GISRUK 2016 conference, London, UK	2016
<b>13</b>	Semantic Similarity Assessment of Volunteered Geographic Information	Journal of Engineering	2016
<b>14</b>	Development of Spatial Data Infrastructure based on Free Data Integration	Journal of Engineering	2015
<b>15</b>	Ten Years of OpenStreetMap Project: Have We Addressed Data Quality Appropriately? – Review Paper	Journal of Engineering	2015
<b>16</b>	Using geometric properties to evaluate possible integration of authoritative and volunteered geographic information	ISPRS International Journal of Geo-Information	2013

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17	Assessing similarity matching for possible integration of feature classifications of geospatial data from official and informal sources	International Journal of Geographical Information Science	2012
18	User generated content and formal data sources for integrating geospatial data	25th International Cartographic Conference, Paris, France	2011
19	Assessing the accuracy of 'crowdsourced' data and its integration with official datasets	Accuracy 2010 conference, Leicester university, UK	2010
20	Open and Formal Data (FD) Sources for Integrating Geospatial Data	PGR School Conference, Newcastle University, UK	2009
21	Optimum Road Path Selection Using Geographic Information System GIS	Engineering Journal	2006
22	Accuracy assessment of digital close range photogrammetry	Engineering Journal	2003

### Academic Book Chapters

Saleem, B., Abed, F., Al-Bakri, M. (2009) Analytical Photogrammetry, 1<sup>st</sup> edition, Al-Ethraa, Jordan.

### Journals and Conferences Reviewing

I review academic papers for leading journals and conferences titles including:

- International Journal of Geographical Information Science.
- Journal of Biodiversity & Endangered Species.
- Journal of Engineering / College of Engineering / University of Baghdad.
- Association of Arab Universities Journal / College of Engineering / University of Baghdad.
- Engineering and Technology Journal / University of Technology.
- Journal for engineering sciences / Thi-Qar University.
- The 3<sup>rd</sup> International Conference on Buildings, Construction and Environmental Engineering, BCEE3-2017.
- Journal of Geoinformatics and Environmental Research.

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### Conferences and Workshops

No.	Conference Title	Year	Place	Type of Participation
1	GISRUK conference	2009	Durham University / UK	Attendance
2	Postgraduate conference	2009	Newcastle University / UK	Poster
3	Postgraduate conference	2010	Newcastle University / UK	Seminar
4	Accuracy 2010 conference	2010	Leicester University / UK	Paper
5	Open Source GIS Workshop	2011	Newcastle University / UK	Attendance
6	International Cartographic Conference	2011	Paris / France	Paper
7	Free Spatial Data Workshop	2012	Nottingham University / UK	Attendance
8	The future for photovoltaic technology workshop	2015	University of Baghdad / Iraq	Attendance
9	Geospatial intelligence effects in Iraqi national security	2015	Al-Nahrain Centre for Strategic Studies	Chairman
10	GISRUK 2016 Conference	2016	London / UK	Poster
11	GISRUK 2017 Conference	2017	London / UK	Poster
12	1st International Conference on Recent Trends of Engineering Sciences and Sustainability /IEEE	2017	Baghdad / Iraq	Paper

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### Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
1	Certificate of Appreciation	Assistant of Baghdad University chancellor	2014
2	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2014
3	Certificate of Appreciation	Minister of Higher Education and Scientific Research	2013
4	Certificate of Appreciation	Assistant of Baghdad University chancellor	2012
5	Award in recognition of the high quality of the paper	International Cartographic Conference /Paris-France	2011
6	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2015
7	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2015
8	Certificate of Appreciation	Al-Nahrain Centre for Strategic Studies	2015
9	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2016
10	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2016
11	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2017
12	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2017
13	Certificate of Appreciation	Dean of College of Engineering / University of Baghdad	2018
14	Certificate of Appreciation	Minister of higher education and scientific research	2020

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### Training Courses:

No.	Course title	Venue	Year
1	Introduction to GIS	Newcastle University / UK	2008
2	Intermediate GIS	Newcastle University / UK	2008
3	Communication Skills : Conferencing	Newcastle University / UK	2009
4	Communication Skills: Writing a Literature Review	Newcastle University / UK	2009
5	Research Practice: Risk Assessment	Newcastle University / UK	2009
6	Library Workshop: E-Theses	Newcastle University / UK	2009
7	IT for Researchers: Power Point Creating and Presenting a Slideshow	Newcastle University / UK	2009
8	IT for Researchers: Excel 2 - Database Facilities	Newcastle University / UK	2009
9	IT for Researchers: Introduction to Matlab	Newcastle University / UK	2009
10	Introduction to EndNote for New Users	Newcastle University / UK	2009
11	Career Management: Applications and Interviews	Newcastle University / UK	2009
12	IT for Researchers: Access 1 - Introduction to Microsoft Access	Newcastle University / UK	2010
13	IT for Researchers: Access 2 - Query Workshop	Newcastle University / UK	2010
14	IT for Researchers: Access 3 - Form Design	Newcastle University / UK	2010
15	Introduction to Teaching and Learning - Part 1	Newcastle University / UK	2010
16	Open Source Geospatial Software 1: Introduction	Newcastle University / UK	2010
17	Cognitive abilities - Practical Statistics (SPSS)	Newcastle University / UK	2010



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18	Professional and career development - Conferencing and Networking	Newcastle University / UK	2011
19	Cognitive Abilities - Publication Quality Images Using Open Source Software	Newcastle University / UK	2011
20	Landmap	Newcastle University / UK	2011

### Membership

- Member of Union of Iraqi Engineers, 1999 – present.
- Member of Geospatial Engineering Group / School of Civil Engineering and Geosciences / Newcastle University/UK, 2010-2012.
- Member of scientific committee / Department of Surveying / College of Engineering, 2012- 2015.
- Head of scientific committee / Department of Surveying / College of Engineering, 2015- present.
- Editorial member of Journal of Engineering / College of Engineering / University of Baghdad, 2016-2019.

### Other Scientific Activities

- Achieving projects for Consultants Bureau of College of Engineering / University of Baghdad.
- Member for several committees of College of engineering / University of Baghdad.
- Lecturer at Al-Farabi University College, 2014- 2016.
- Lecturer at Urok University, 2016-2017.
- Member of the preparatory committee of the seventh engineering and the first international scientific conference, college of engineering / university of Baghdad, 2016-2017.
- Member of the preparatory committee of the postgraduate conference, college of engineering / university of Baghdad, 2016-2017.

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### Teaching Experience (Undergraduate)

No.	Department	Subject	Year
1	Dept. of Surveying/College of Eng./Uni. of Baghdad	Cartography	2012-Present
2	Dept. of Surveying/College of Eng./Uni. of Baghdad	Remote Sensing	2004-2008 2012-Present
3	Dept. of Surveying/College of Eng./Uni. of Baghdad	Geographical Information System	2012-Present
4	Dept. of Surveying/College of Eng./Uni. of Baghdad	Survey CAD Mapping	2004-2008 2012-2013
5	Dept. of Surveying/College of Eng./Uni. of Baghdad	Programming Language	2012-2013
6	Dept. of Civil Engineering/Al-Farabi Uni. College	Surveying	2014-2016

### Teaching Experience (Postgraduate (M.Sc.))

No	Department	Subject	Year
1	Dept. of Surveying/College of Eng./Uni. of Baghdad	Geoinformatics	2014-Present
2	Dept. of Surveying/College of Eng./Uni. of Baghdad	Advanced Cartography	2014-Present
3	Dept. of Technical Surveying /Technical College-Baghdad	GPS Network Control	2015-2017
4	Dept. of Technical Surveying /Technical College-Baghdad	Geodetic Network Design	2015-2017

### Software and Programming Language Expertise

ArcGIS, AutoCAD, LandDevelopment, Civil3D, Google Sketchup, QGIS, WordNet Similarity, Microsot office, OpenStreetMap Editor ,EndNote , Minitab, Matlab, Visual Studio, XML Schema, HTML and XML Script Language.

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### Surveying Instruments Expertise

Total Station, GPS (Survey and navigation mode), Digital and Traditional level, Digital Theodolite.

### Recent Projects for Consultants Bureau of College of Engineering / University of Baghdad

- Survey of Mayssan University (Site Plan and Contour Map).
- Survey of Baghdad University / Al-Jadriyah Campus (Site Plan).
- Survey of Kerbalaa ring road (Site Plan, Spot Height and Contour Map).
- Survey of Mayssan-Bassrah interchanges (Site Plan, Profile and Cross Section).
- Survey of Al-Jadriyah / Baghdad interchanges (Site Plan, Profile and Cross Section).
- Survey of Al-Wihda / Baghdad Pump station (Site Plan and Spot Height).
- Survey of Al-Mijar / Mayssan Pump Station (Site Plan, Contour Map, Profile, Cross Section and River Cross Sections).
- Survey of Al-Mishkhab / AnNajaf Pump Station (Site Plan, Contour Map, Profile, Cross Section and River Cross Sections).
- Survey of Gahmas / Diwaniyah Pump Station (Site Plan, Contour Map, Profile, Cross Section and River Cross Sections).
- Survey of Al-Sulaimaniya Pump Station (Site Plan, Contour Map, Profile and Cross Section).

### Languages

- Arabic
- English